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2010-0 "9455E860

Title: Purified and Isolated Potassium-Chloride Cotransporter  
Nucleic Acids and Polypeptides and Therapeutic and  
Screening Methods Using Same  
Applicant: Mount et al.  
Serial No.: 09/835,976

COPY

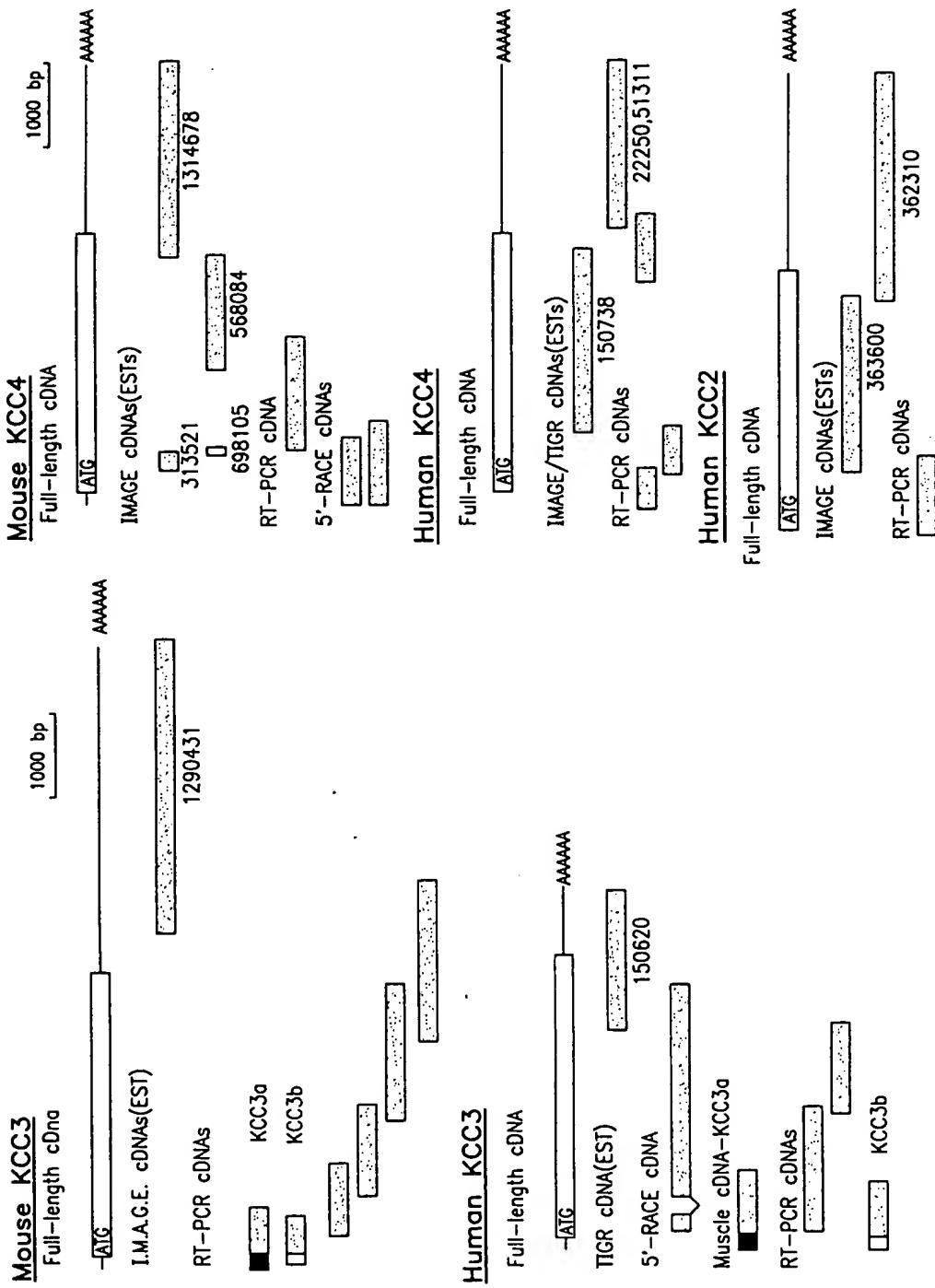


FIG. 1

2010 EDITION

Title: Purified and Isolated Potassium-Chloride Counterion  
Nucleic Acids and Polypeptides and Therapeutic and  
Screening Methods Using Same  
Applicant: Mount et al.  
Serial No.: 09/835,976

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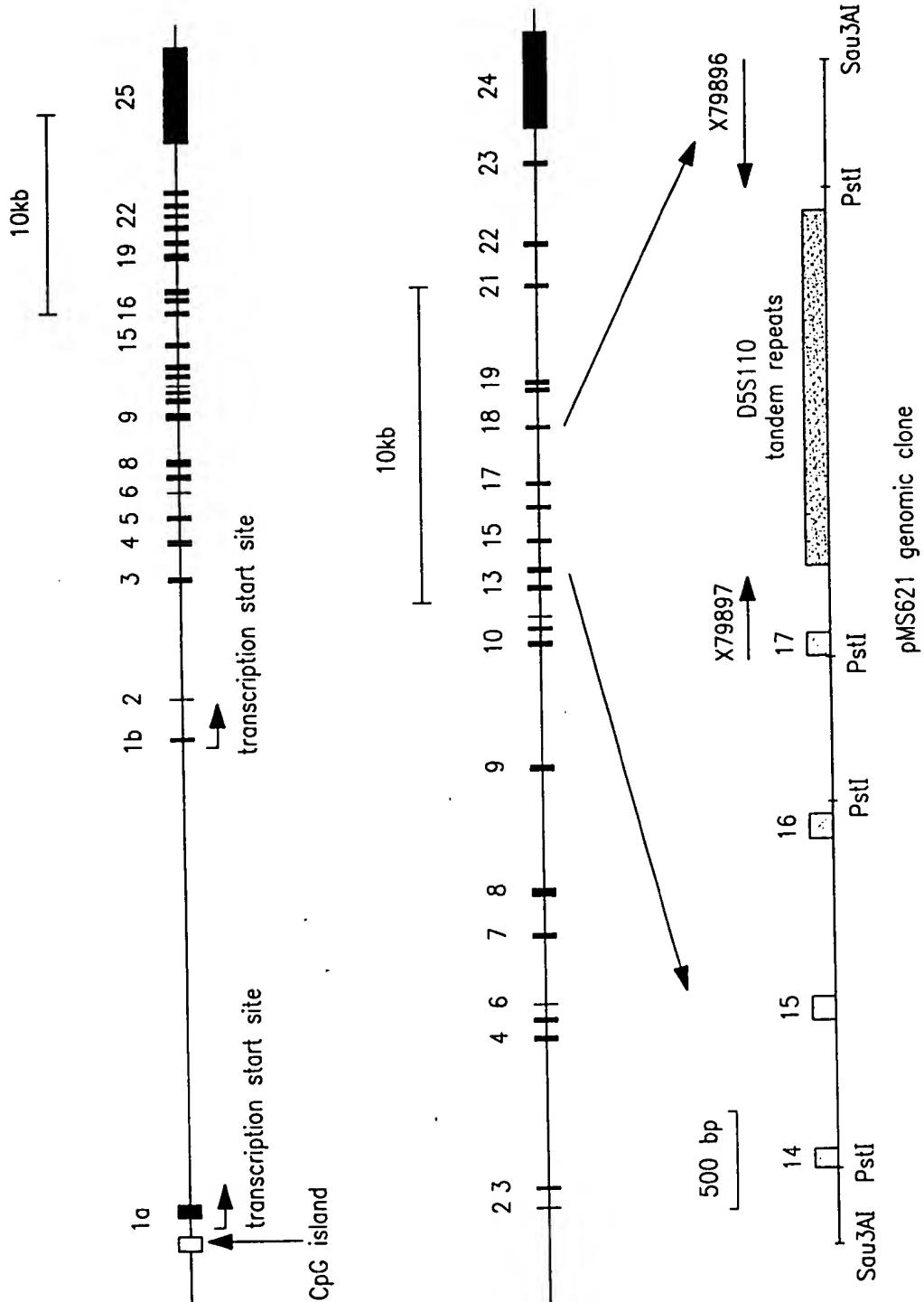


FIG. 2A

FIG. 2B

Title: Purified and Isolated Potassium-Chloride Counterion  
Applicant: Mount et al.  
Serial No.: 09/835,976

COPY

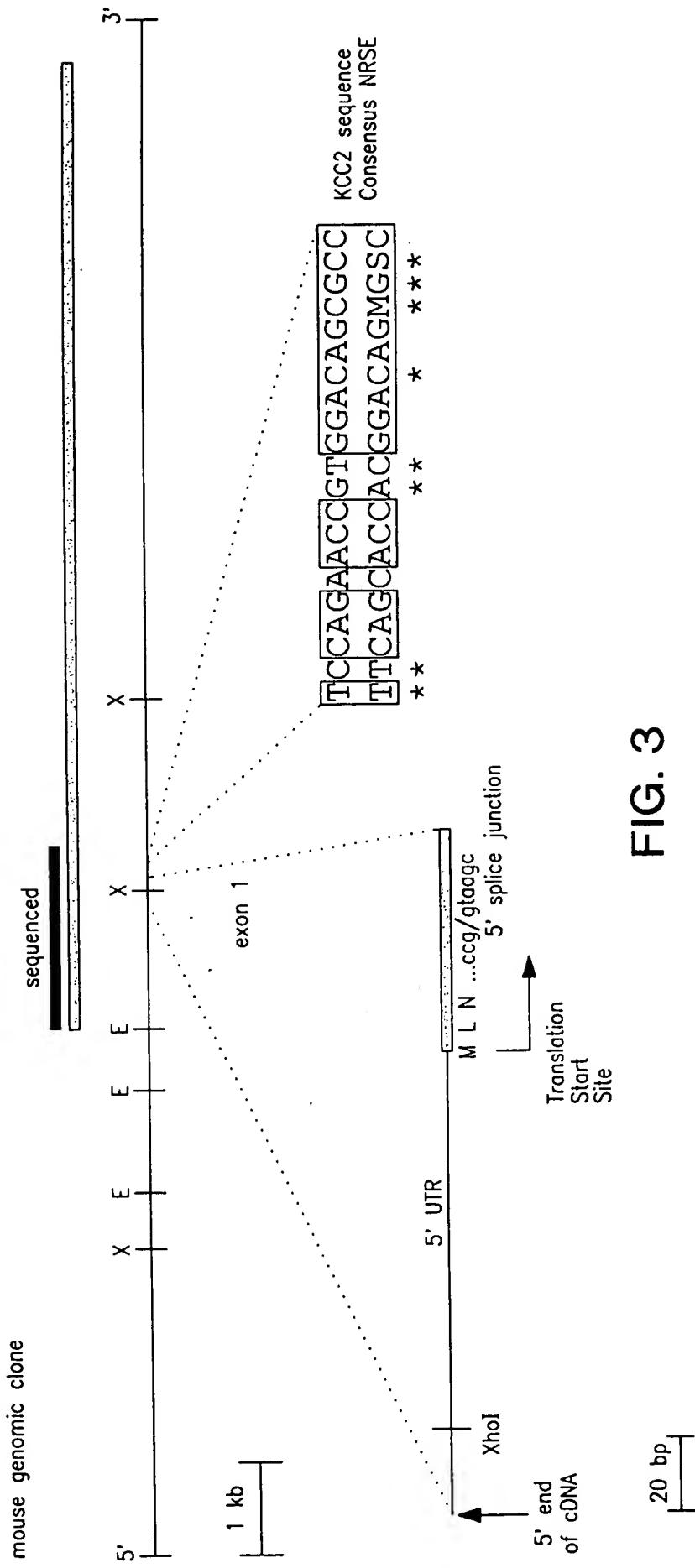


FIG. 3

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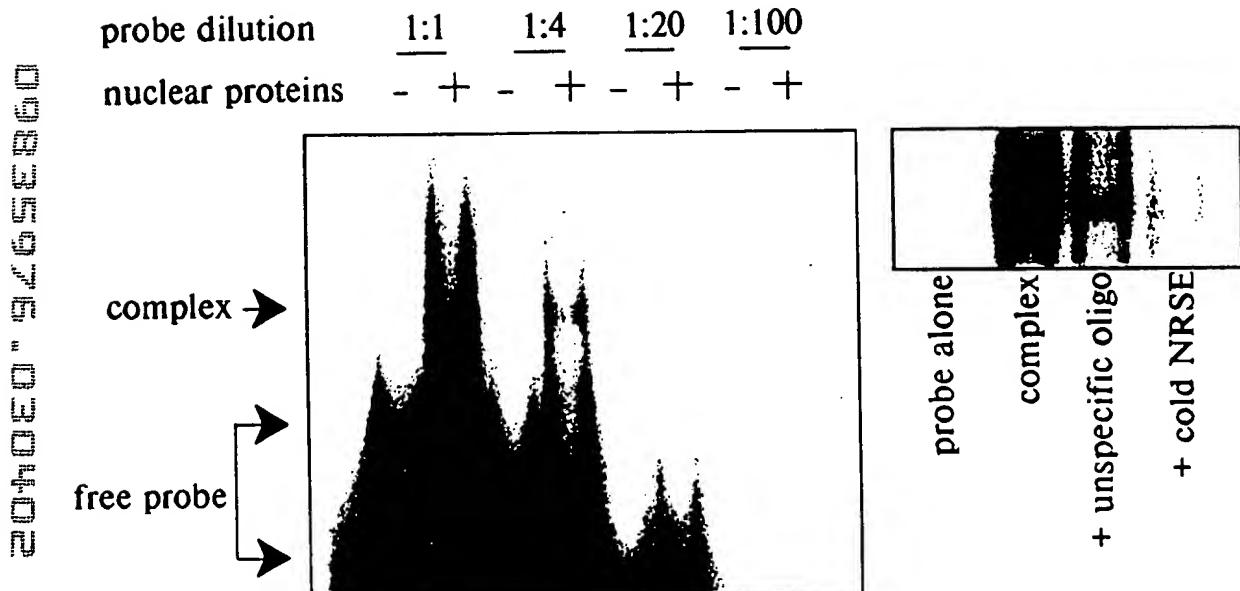


FIG. 4A

FIG. 4B

Title: Purified and Isolated Potassium-Chloride Cotransporter  
Nucleic Acids and Polypeptides and Therapeutic and  
Screening Methods Using Same  
Applicant(s): Mount et al.  
Serial No.: 09/835,976

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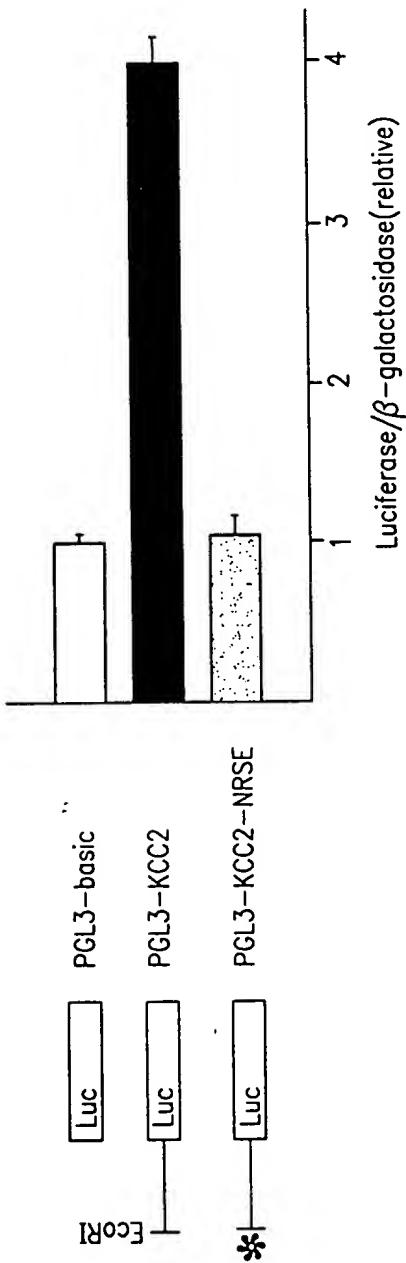


FIG. 5

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COPY

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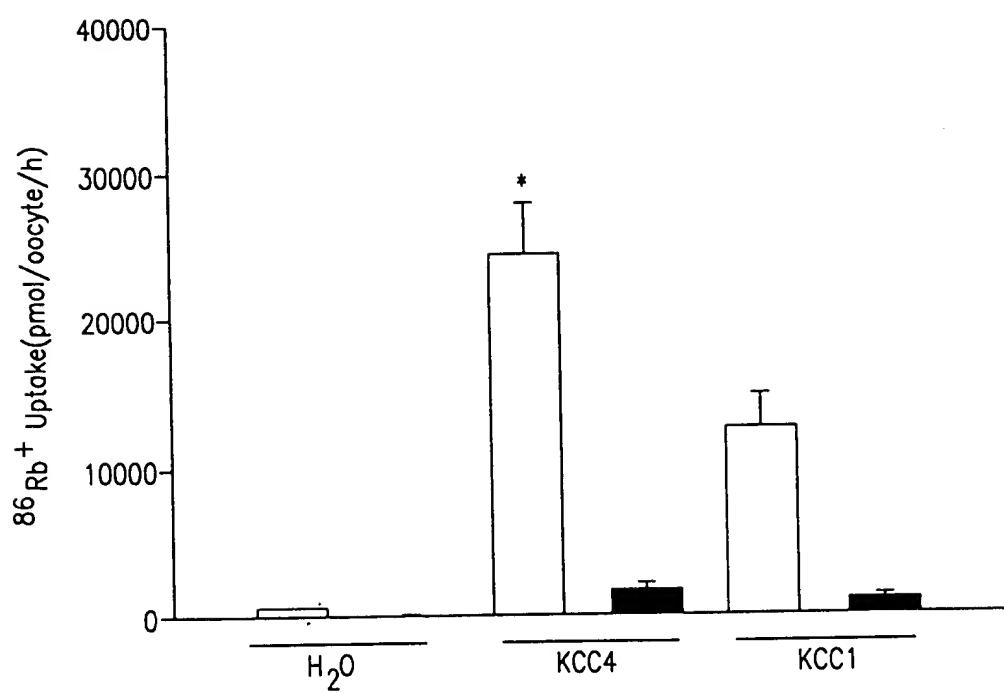


FIG. 6

COPY

FIG. 7B

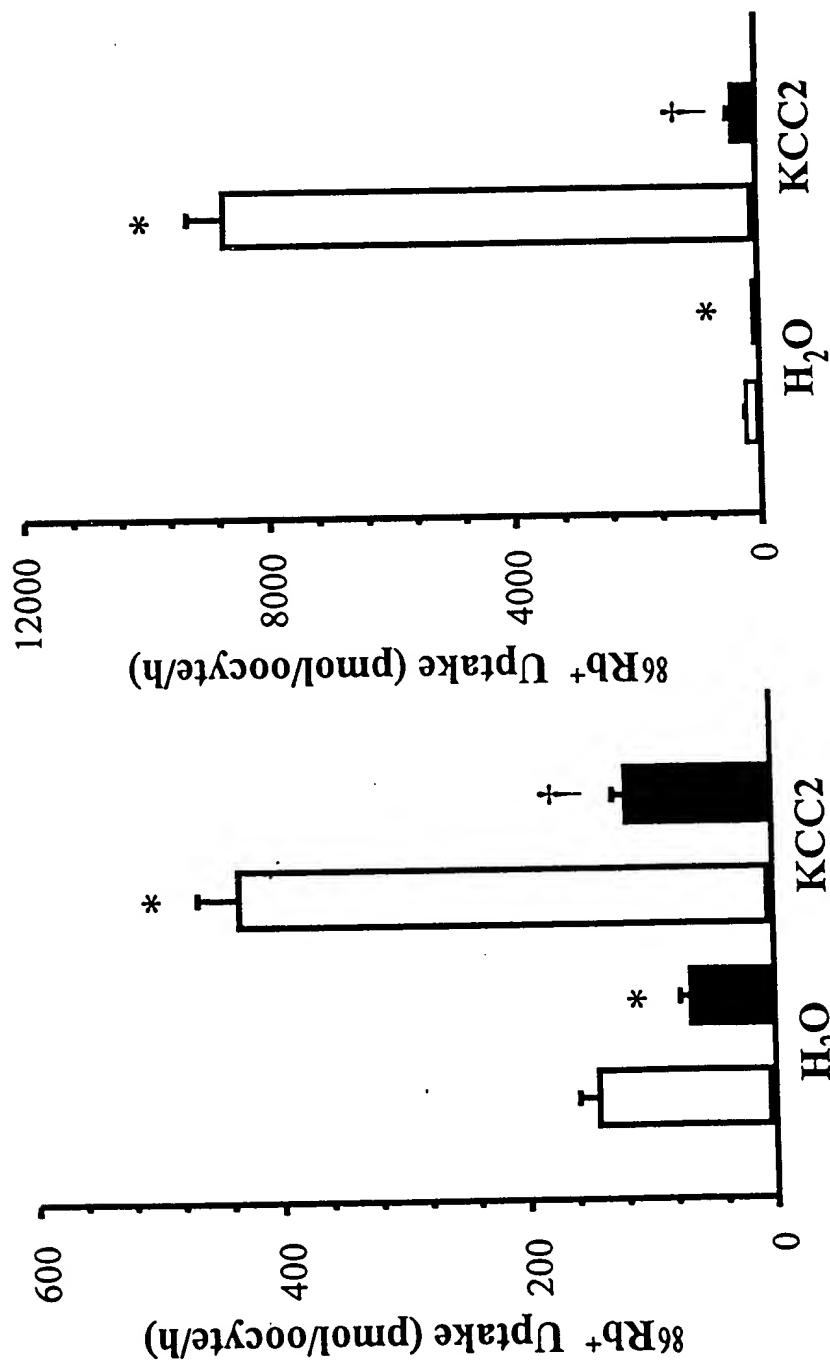
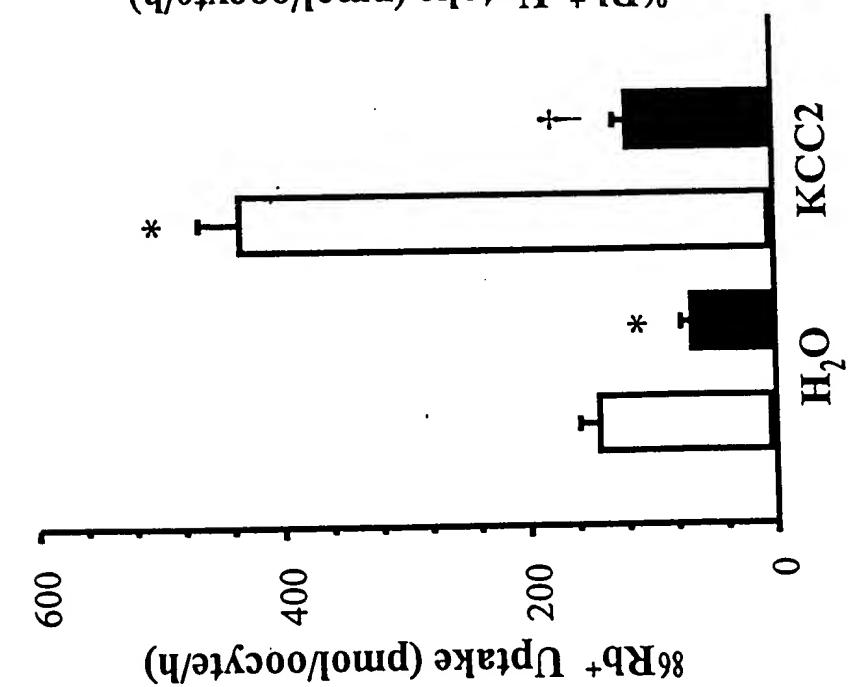


FIG. 7A



2010 EDITION 9/25/2006 9:40:40 AM

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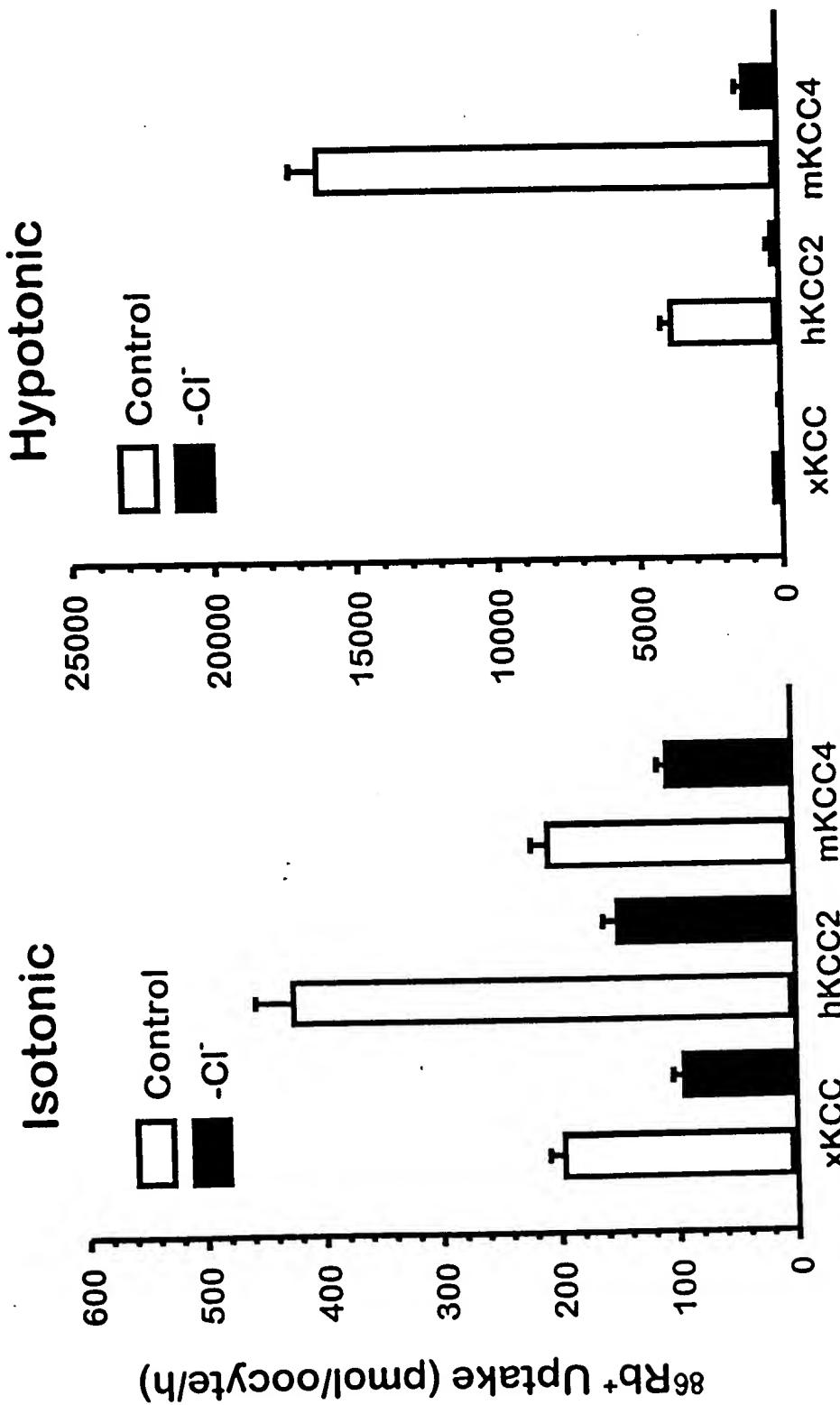


FIG. 8

COPY

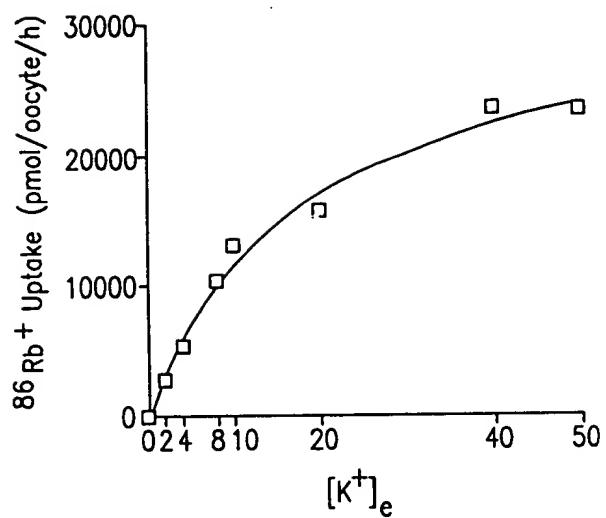


FIG. 9A

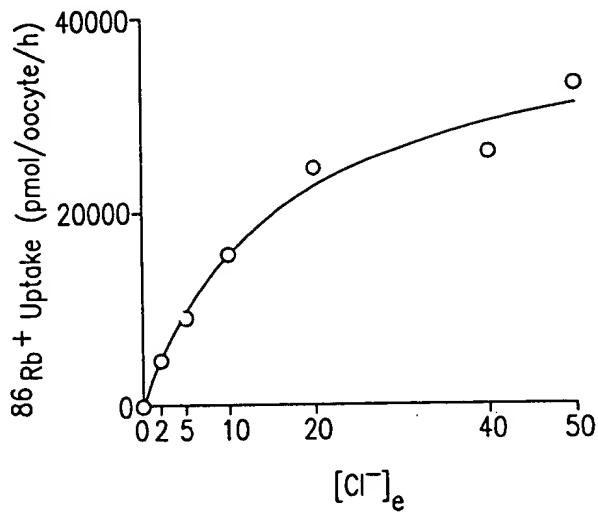


FIG. 9B

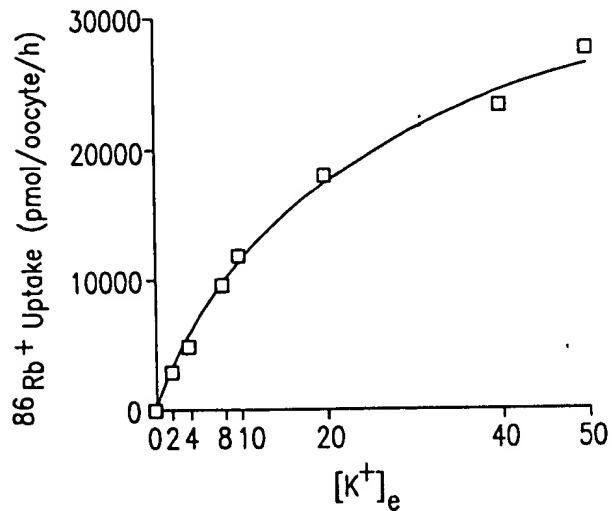


FIG. 9C

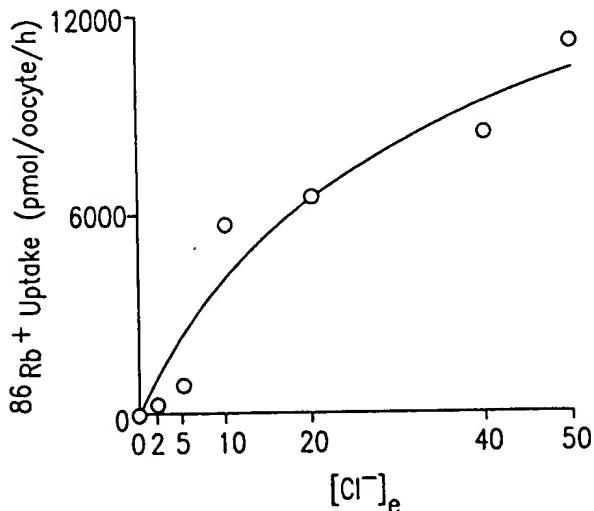


FIG. 9D

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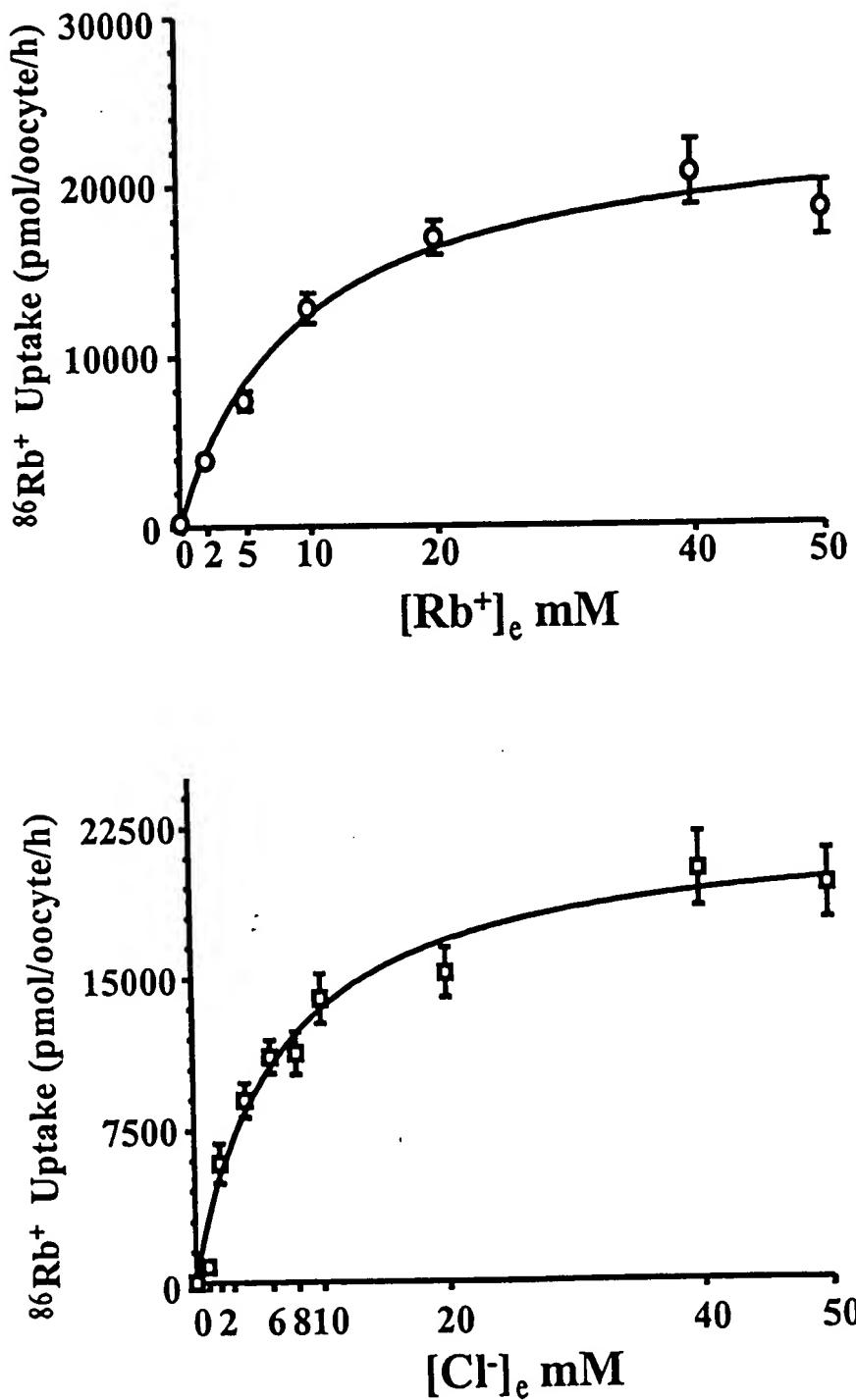


FIG. 10

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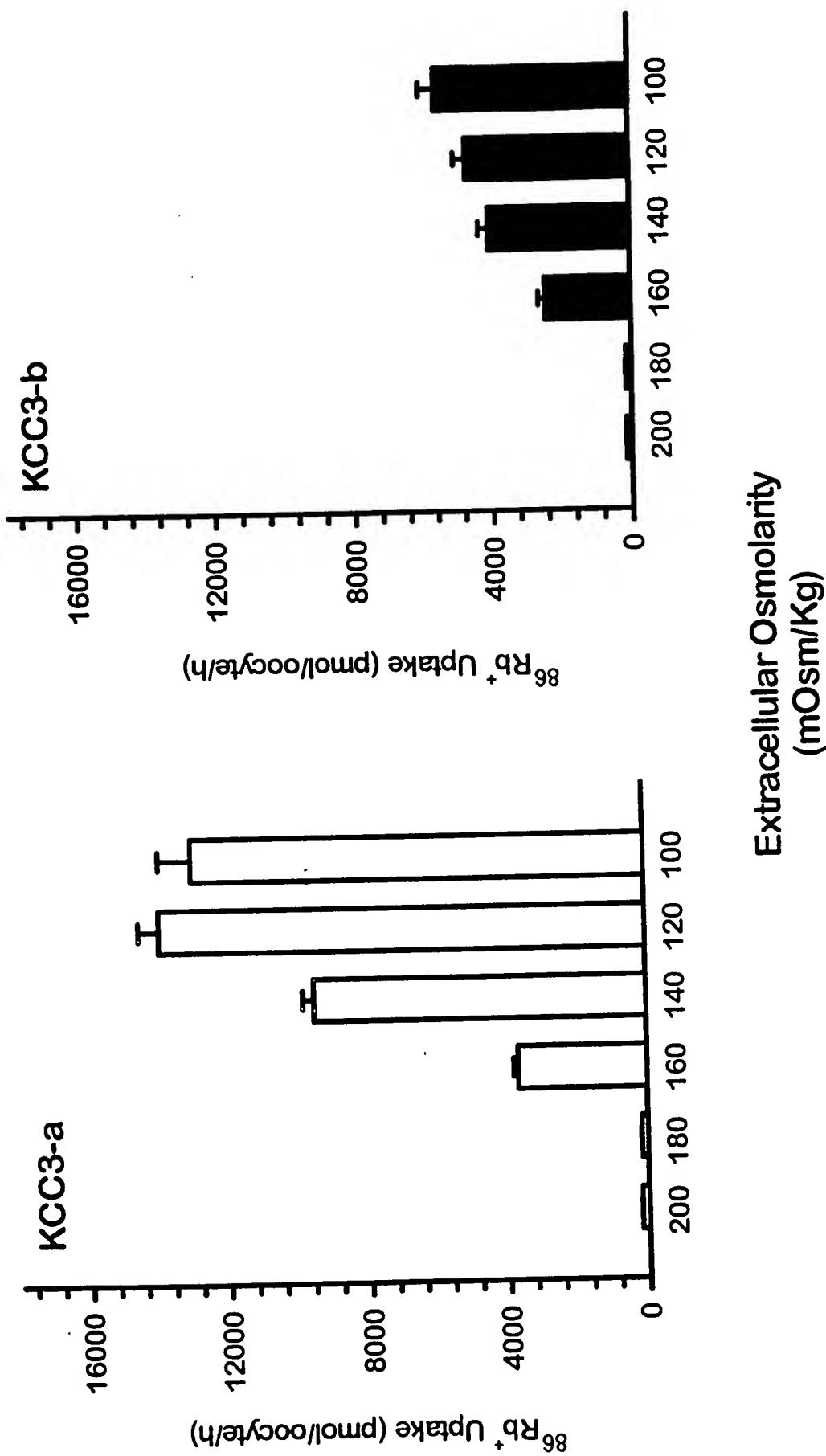


FIG. 11

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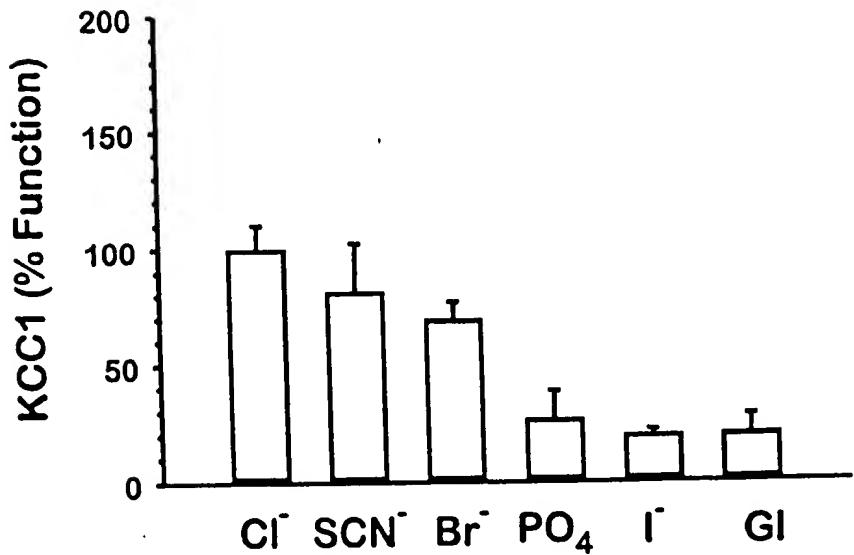
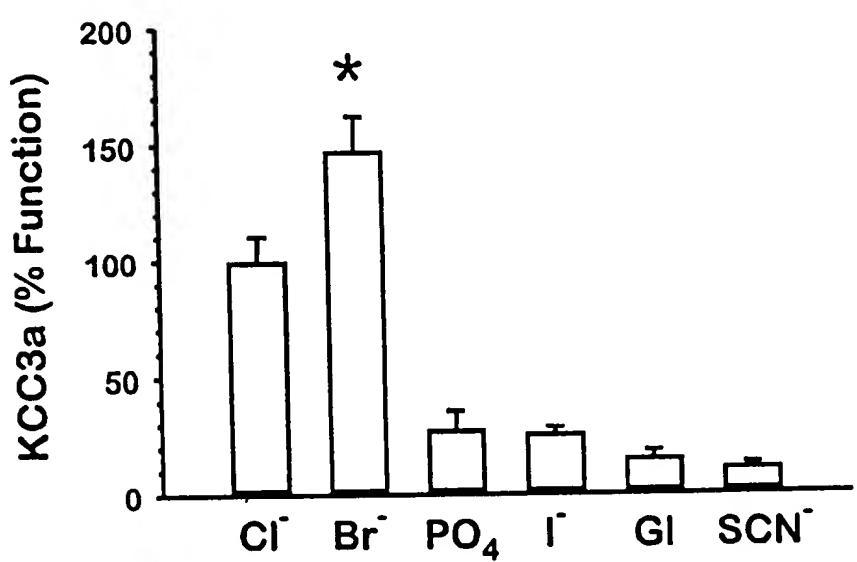
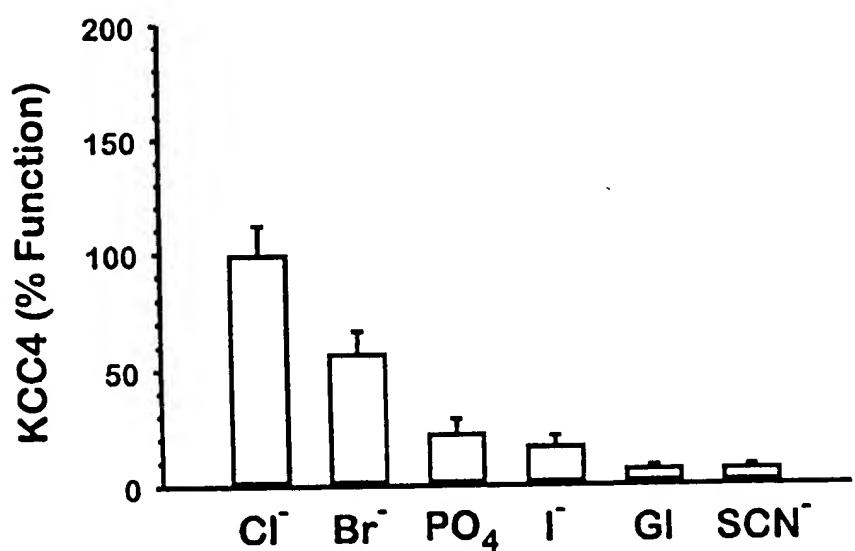


FIG. 12

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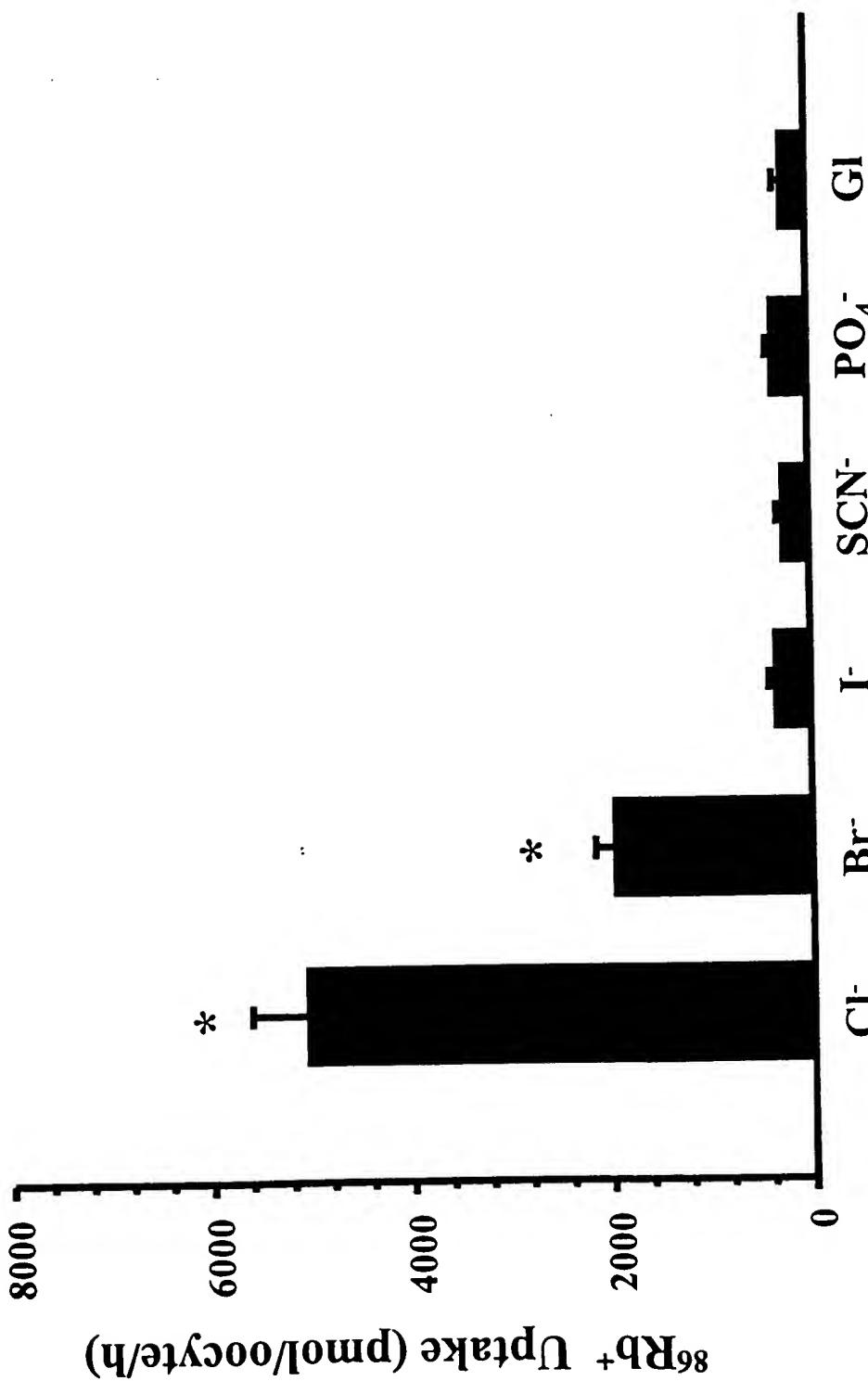


FIG. 13

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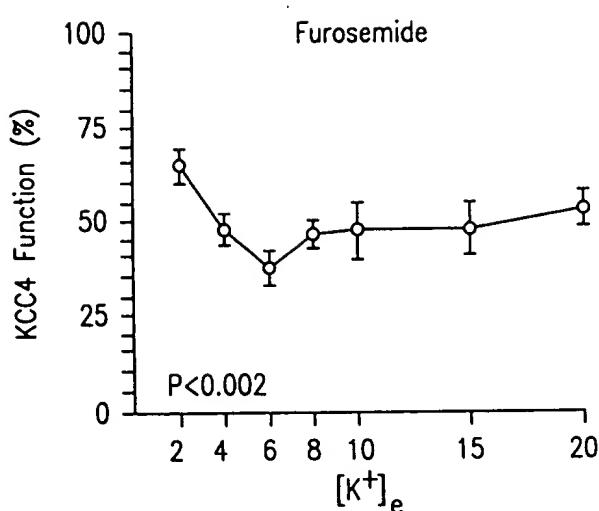


FIG. 14A

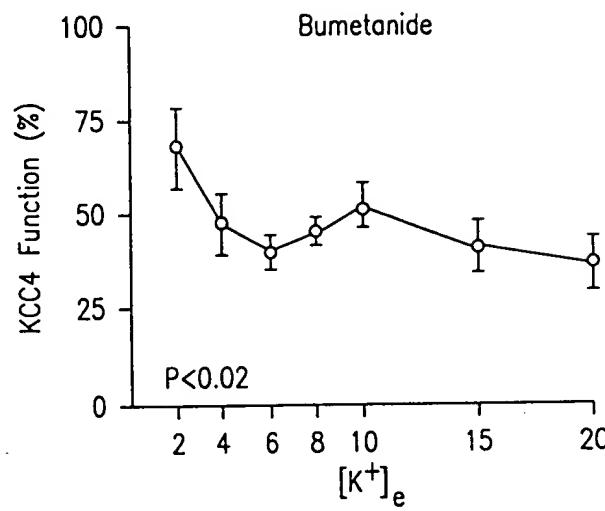


FIG. 14B

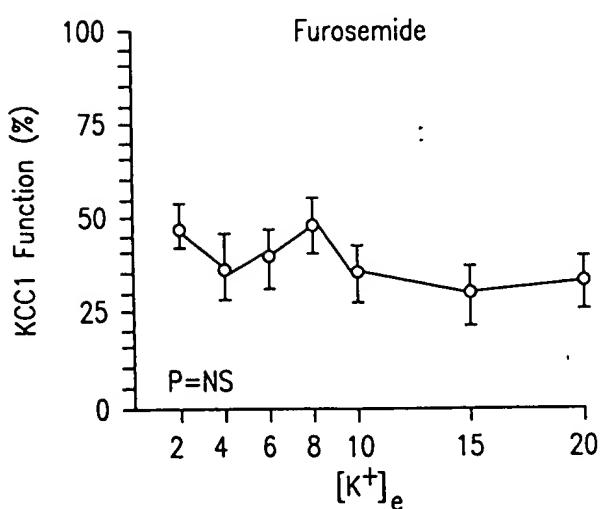


FIG. 14C

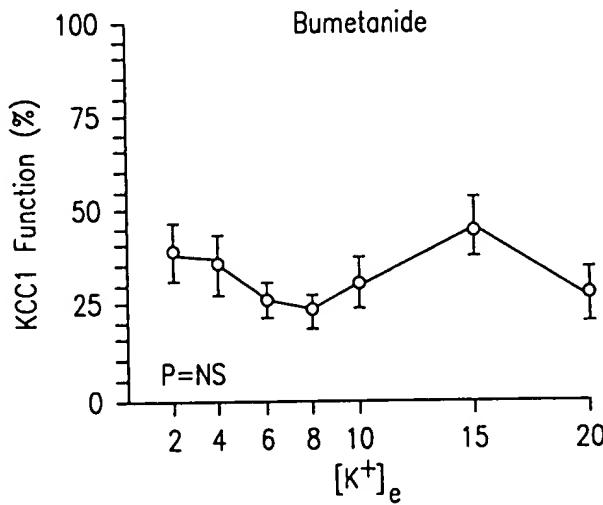


FIG. 14D

COPY

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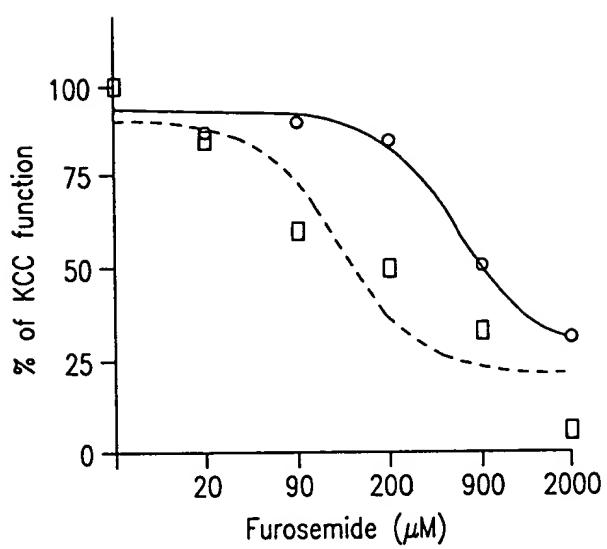


FIG. 15A

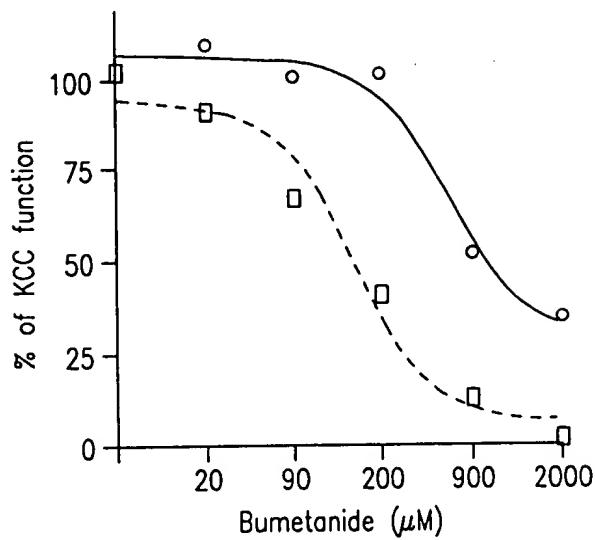
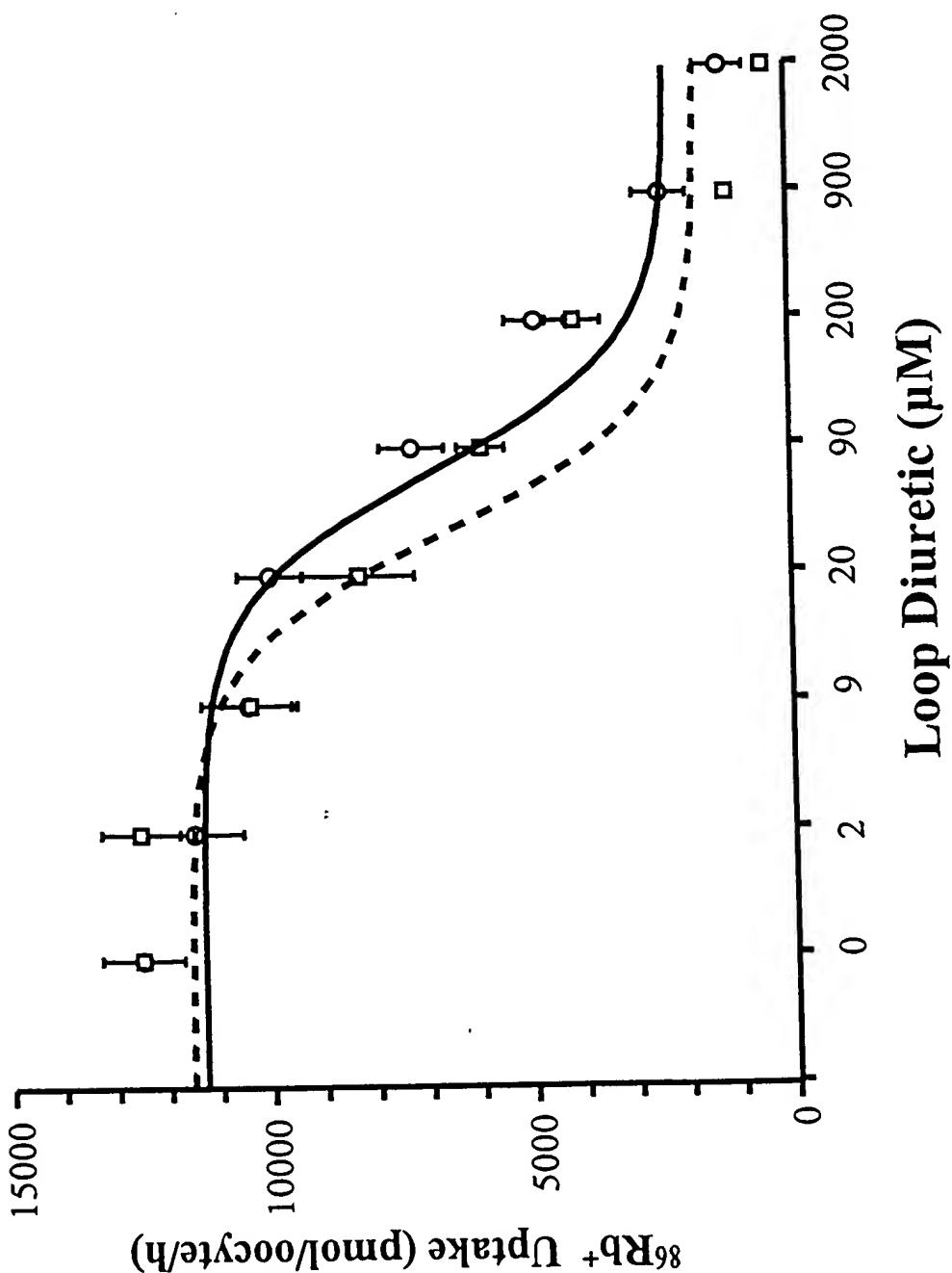


FIG. 15B

**COPY**



COPY

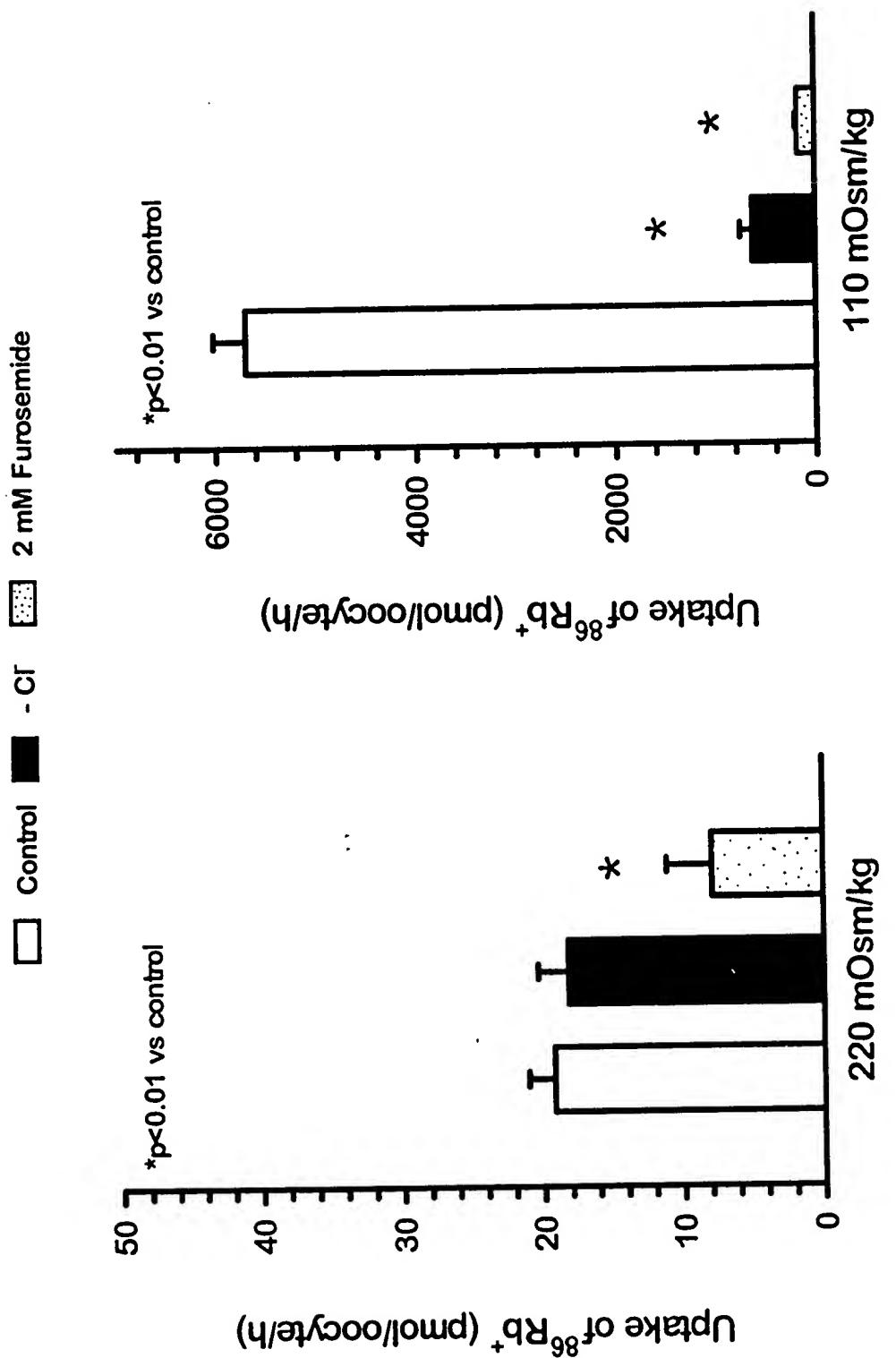


FIG. 17

COPY

DIDS (100  $\mu$ M)

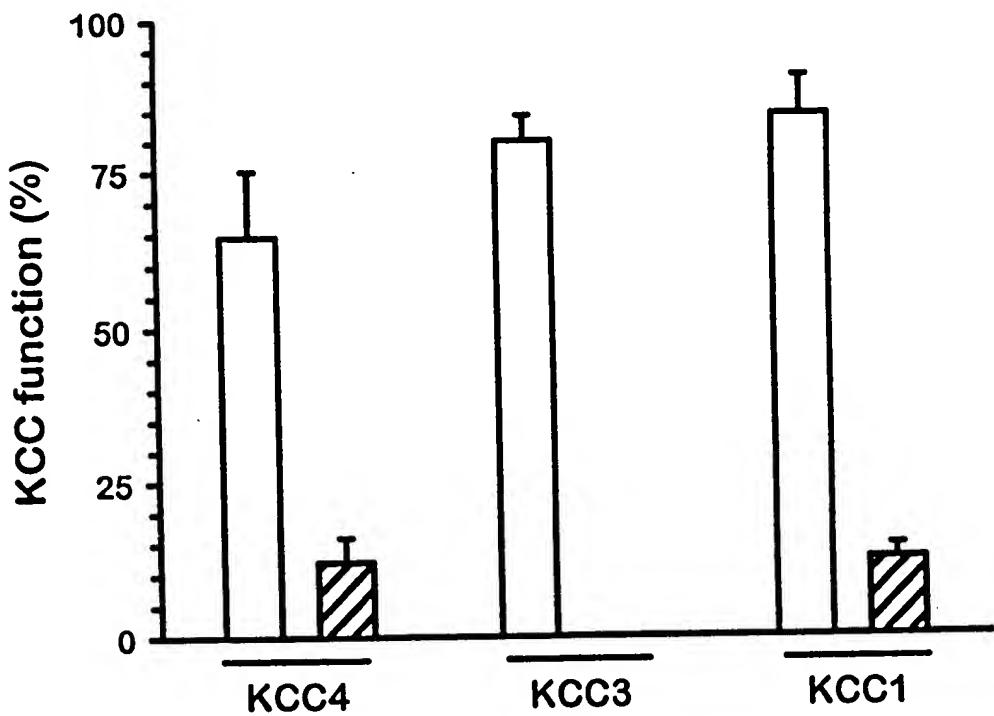
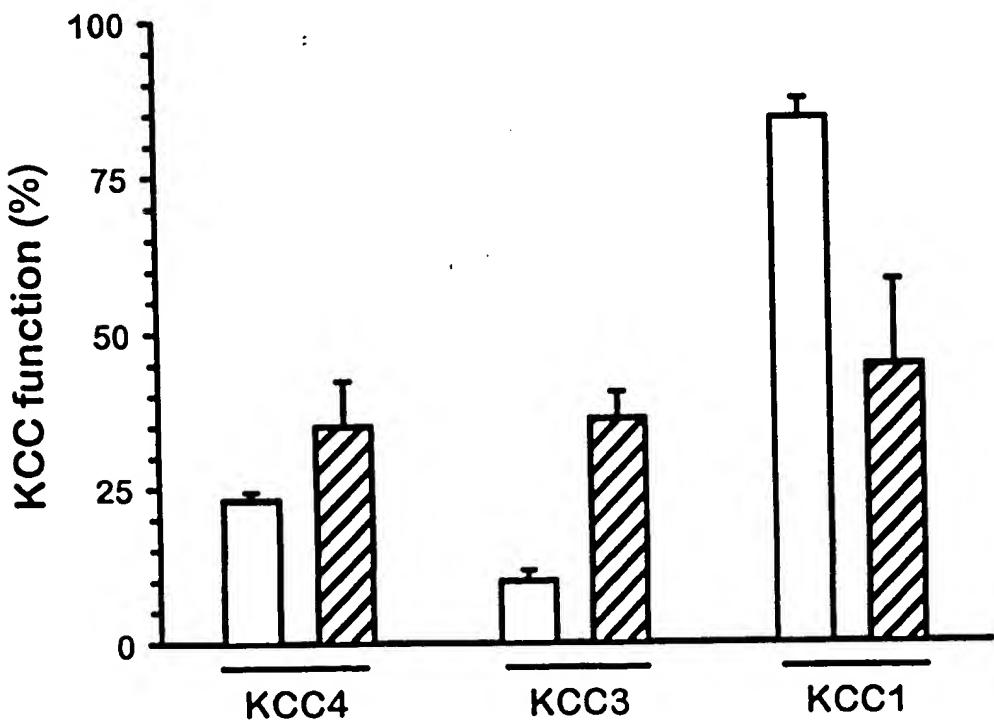


FIG. 18A

DIOA (100  $\mu$ M)



COPY

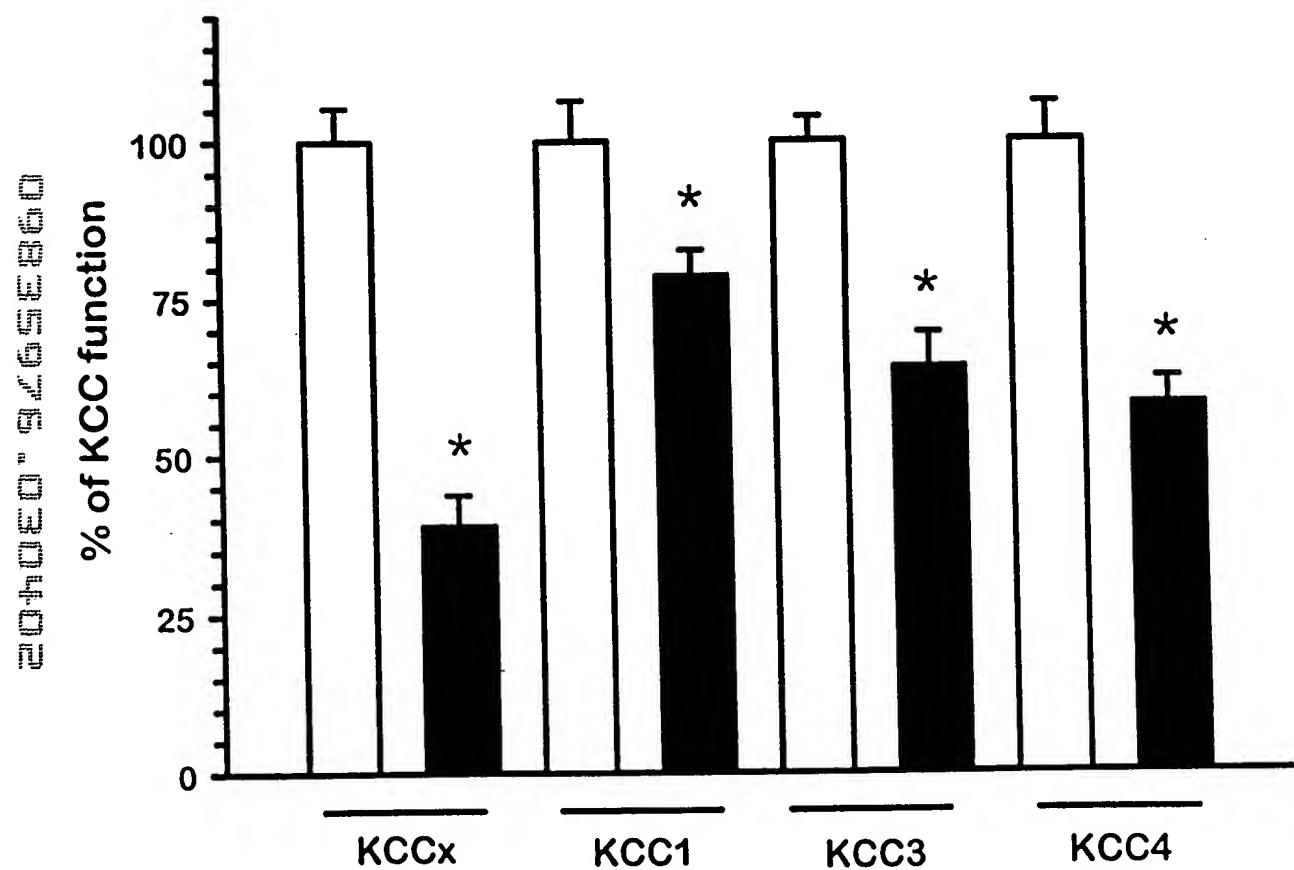


FIG. 19

COPY

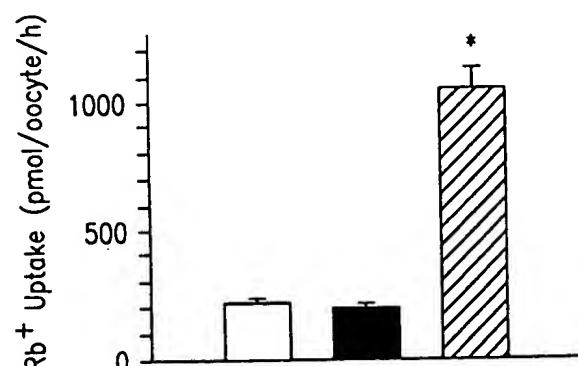


FIG. 20A

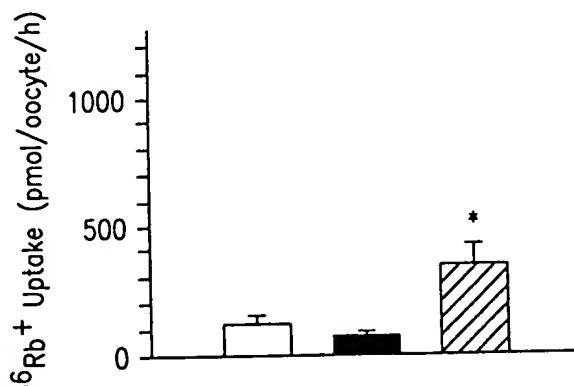


FIG. 20B

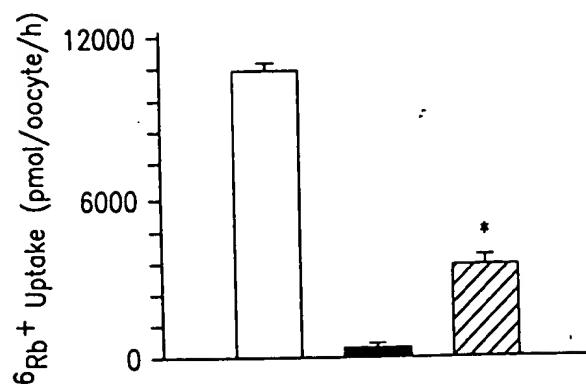


FIG. 20C

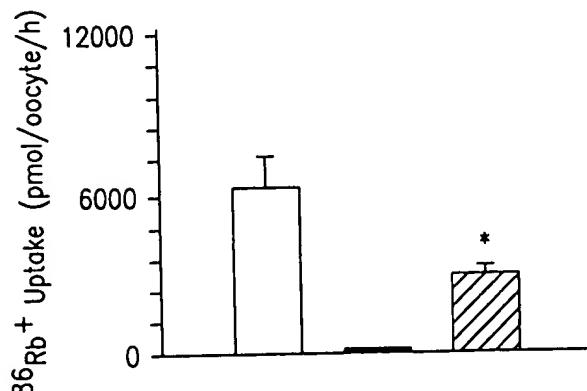
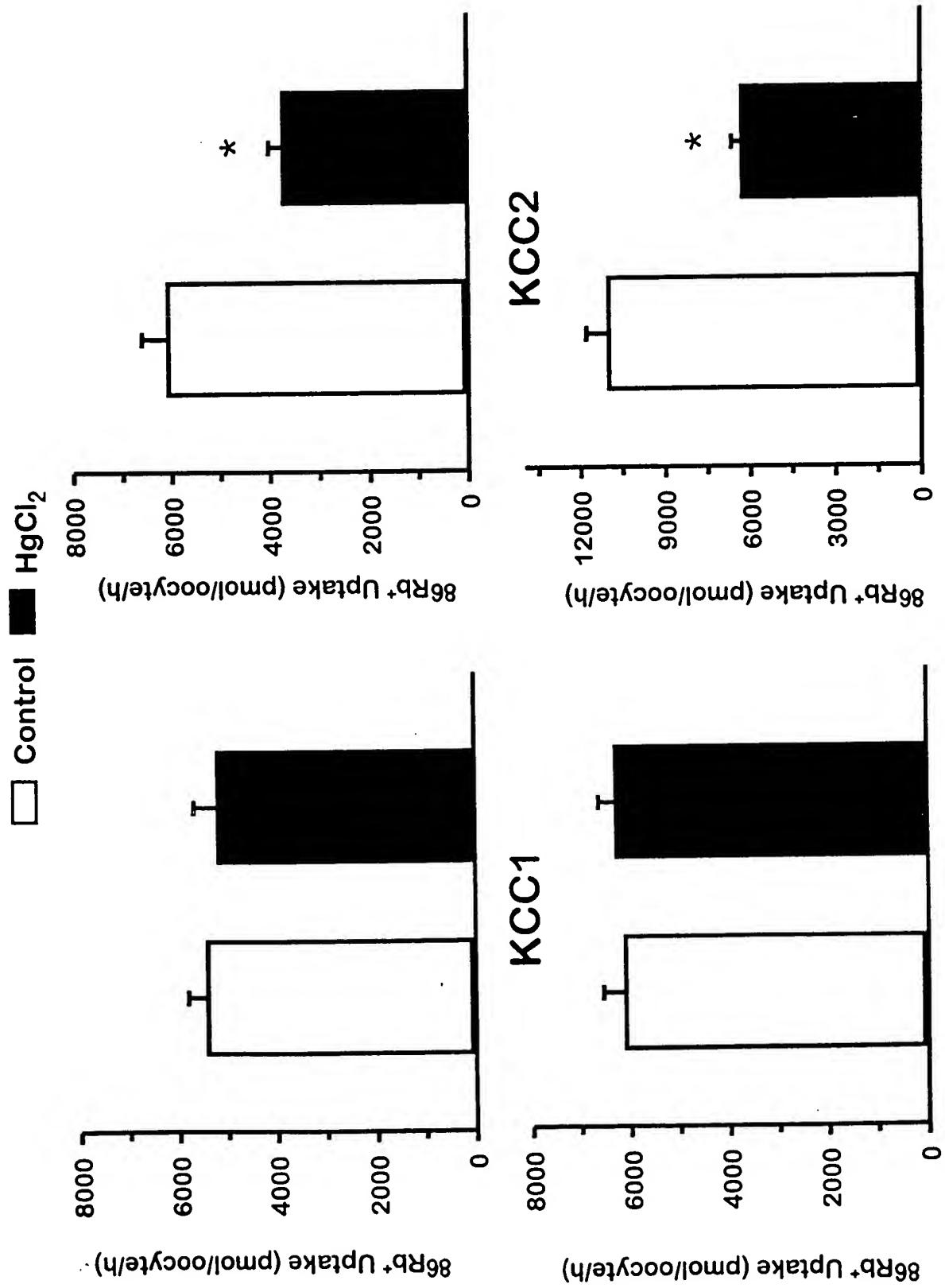


FIG. 20D

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COPY



KCC4

FIG. 21

KCC3a

\*p<0.01 vs control

COPY

201000 " 32653360

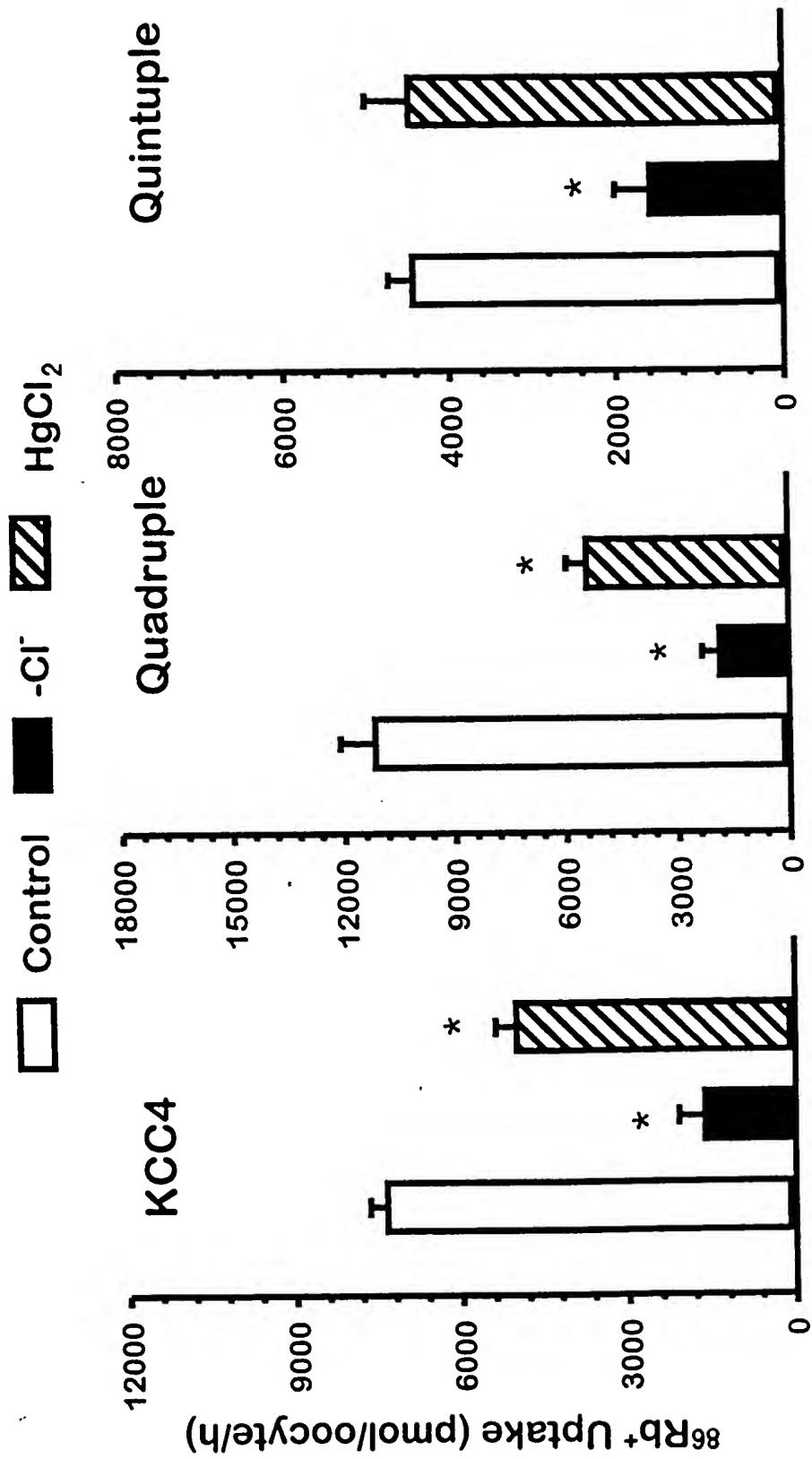


FIG. 22

\* $p < 0.01$  vs control

2010EO "E65E860

Title: Purified and Isolated Potassium-Chloride Cotransporter, Nucleic Acids and Polypeptides and Therapeutic and Screening Methods Using Same  
Inventor(s): Mount et al.  
Serial No.: 09/835,976

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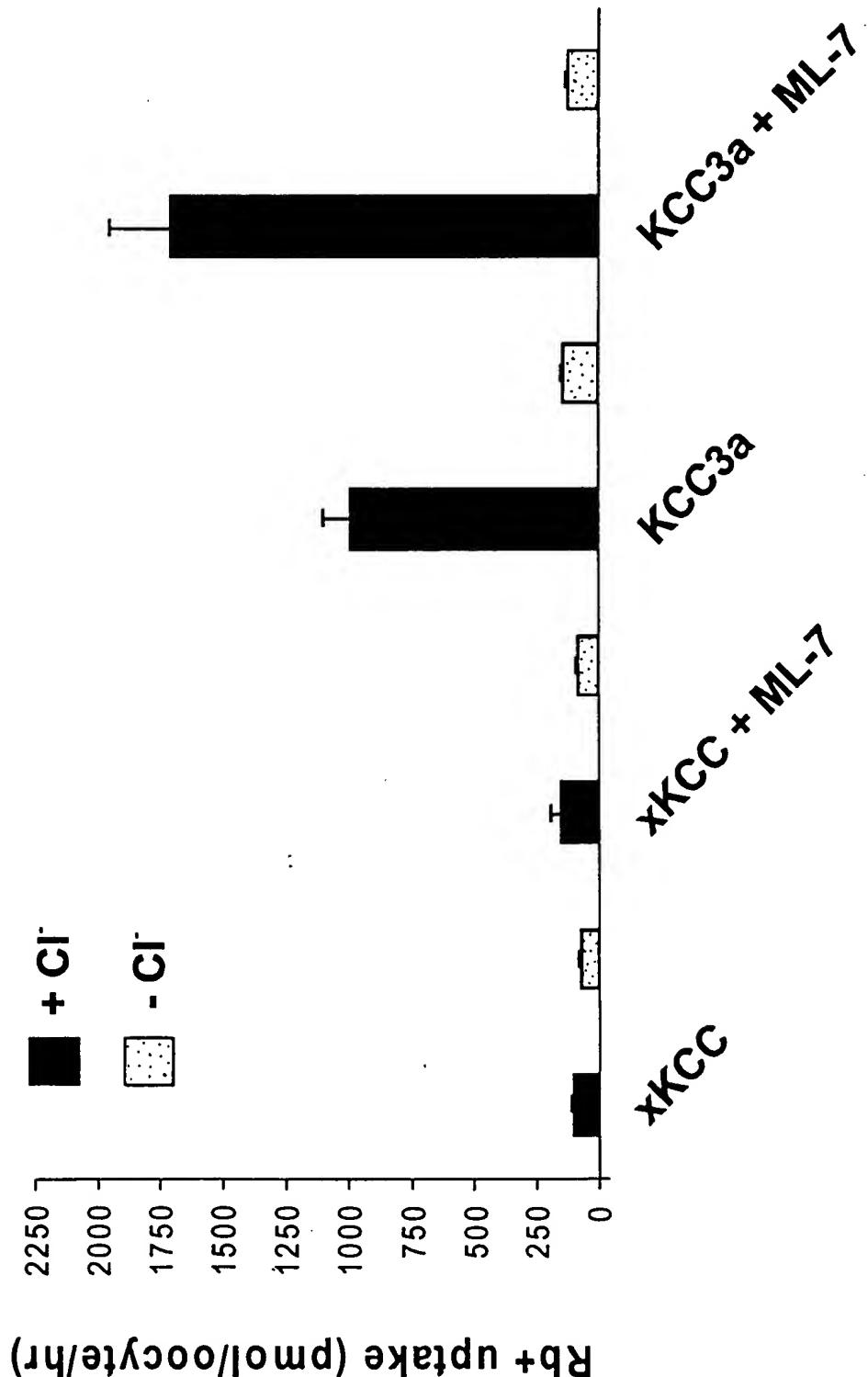


FIG. 23

COPY

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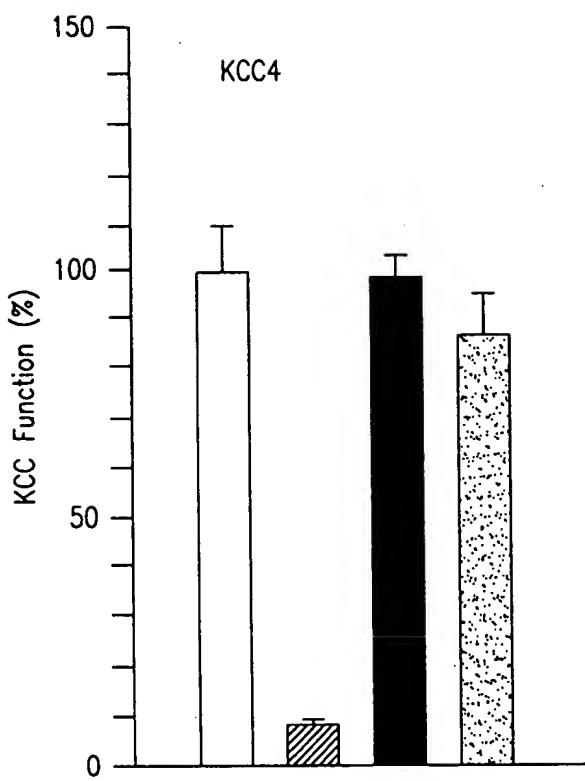


FIG. 24A

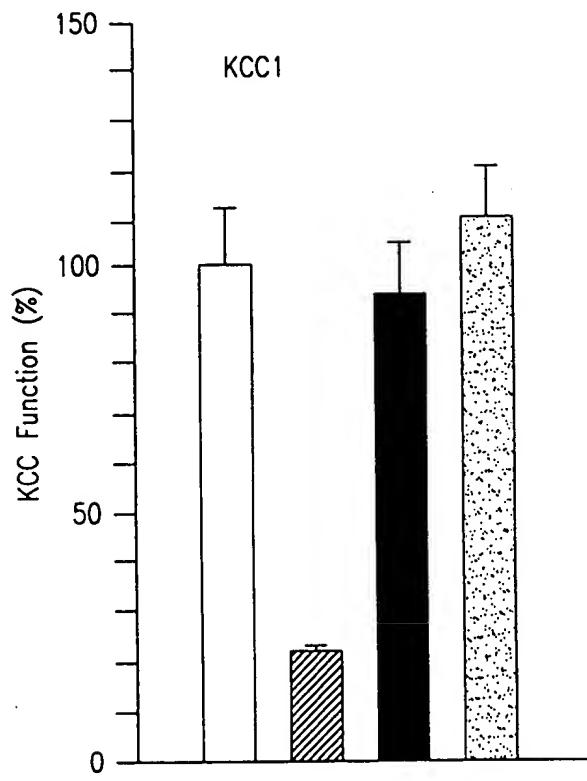


FIG. 24B

COPY

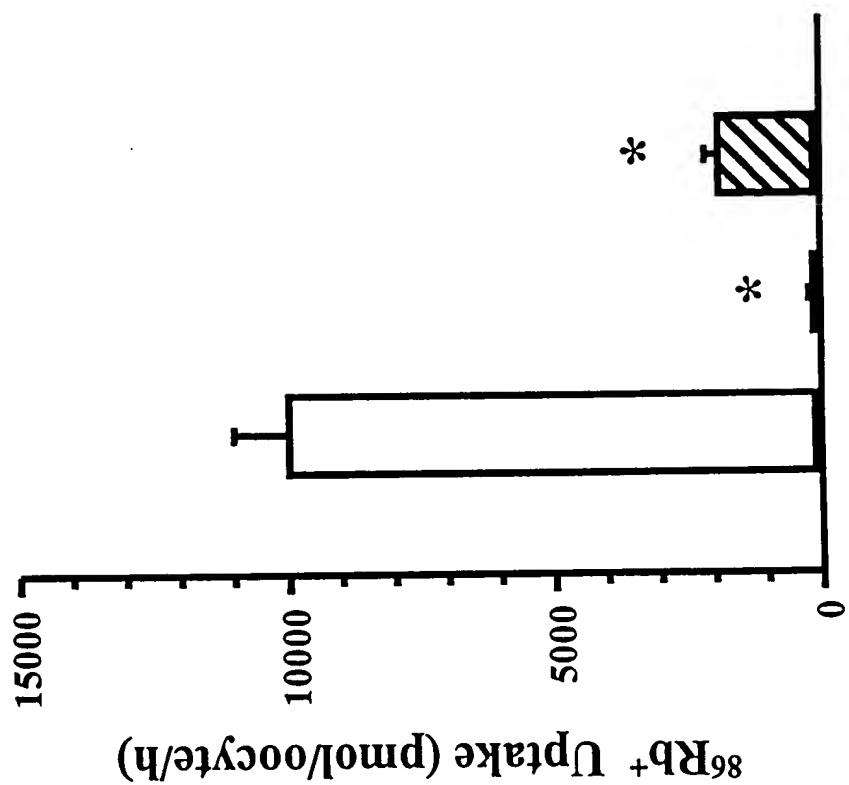


FIG. 25B

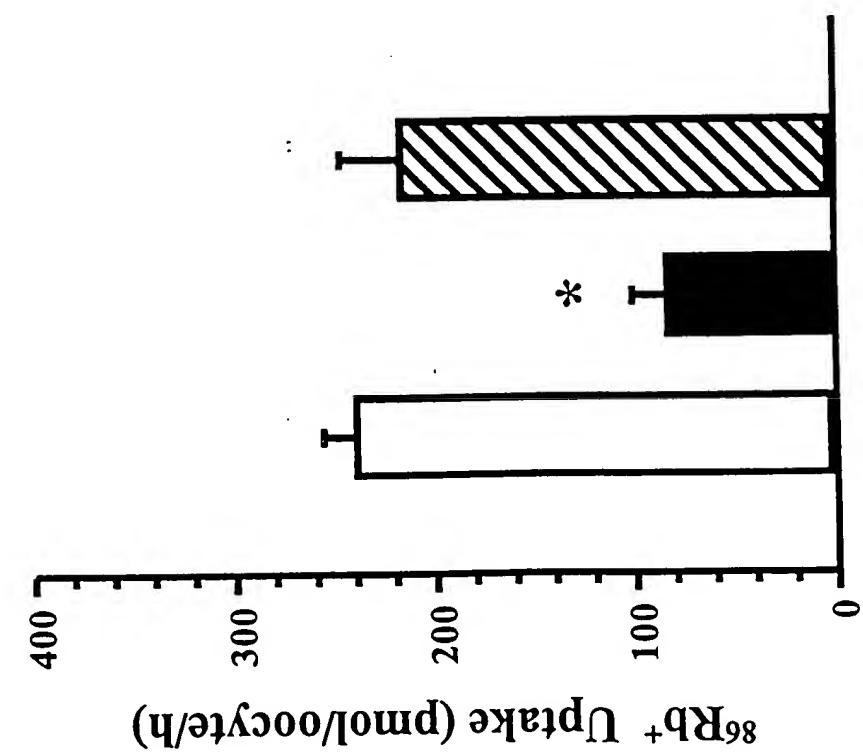


FIG. 25A

COPY

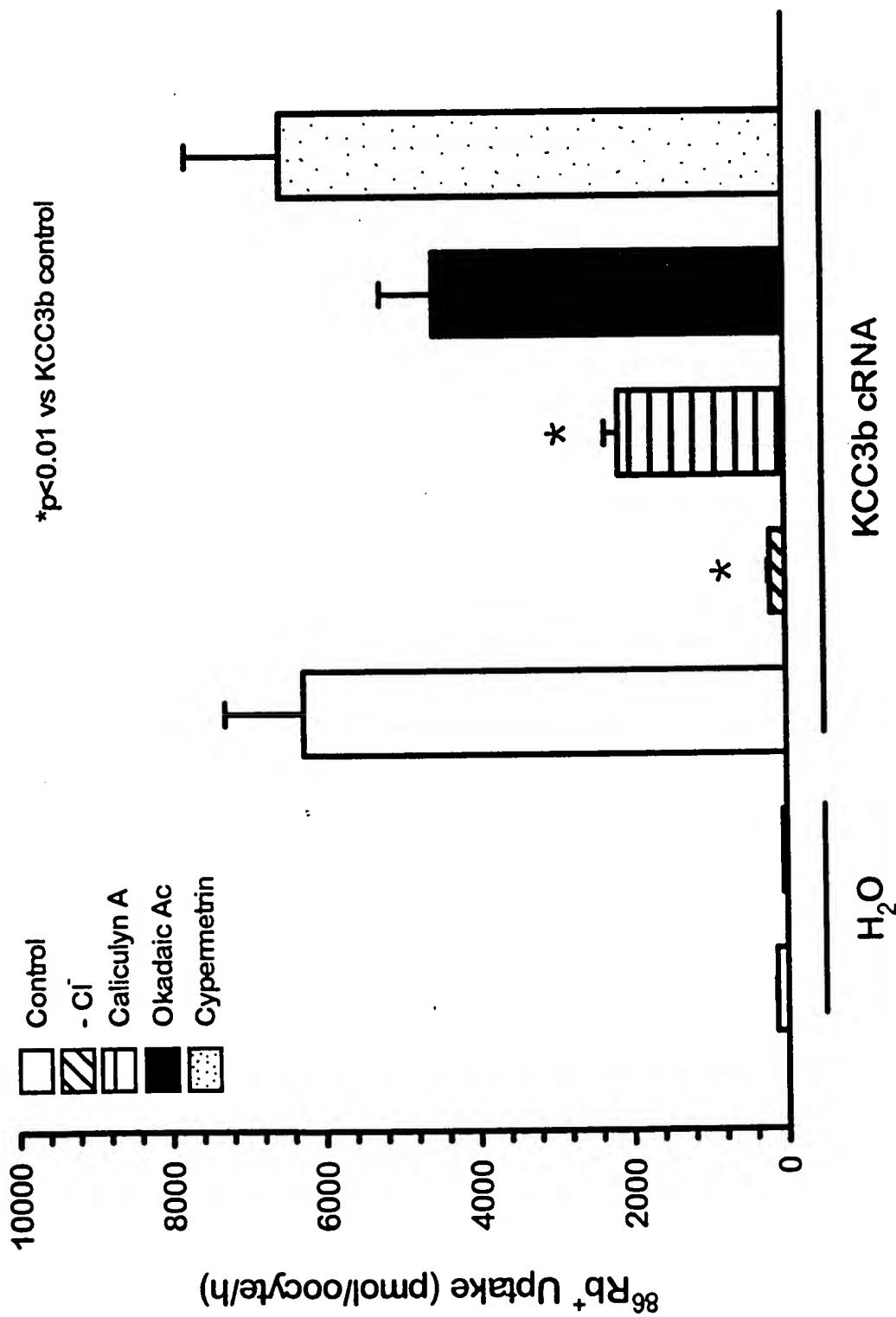


FIG. 26

COPY

### KCC2/NT2-N

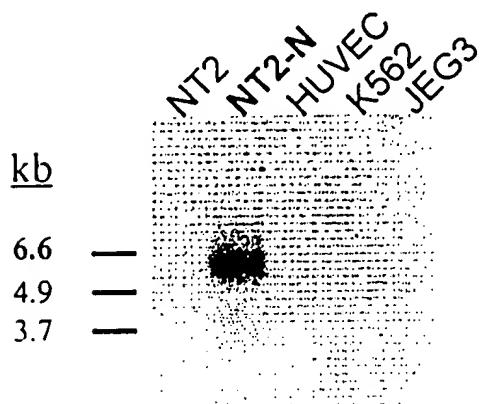


FIG. 27A

### Mouse KCC3

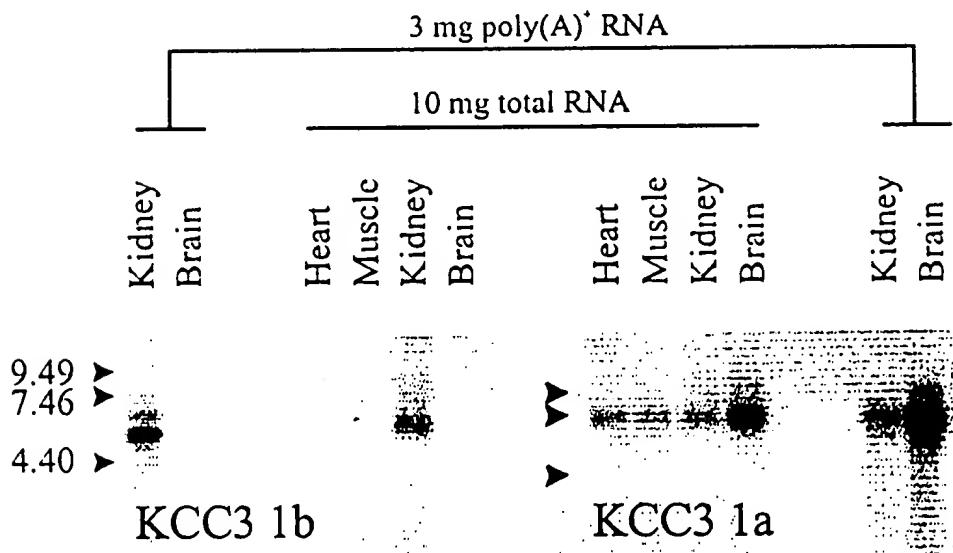


FIG. 27B

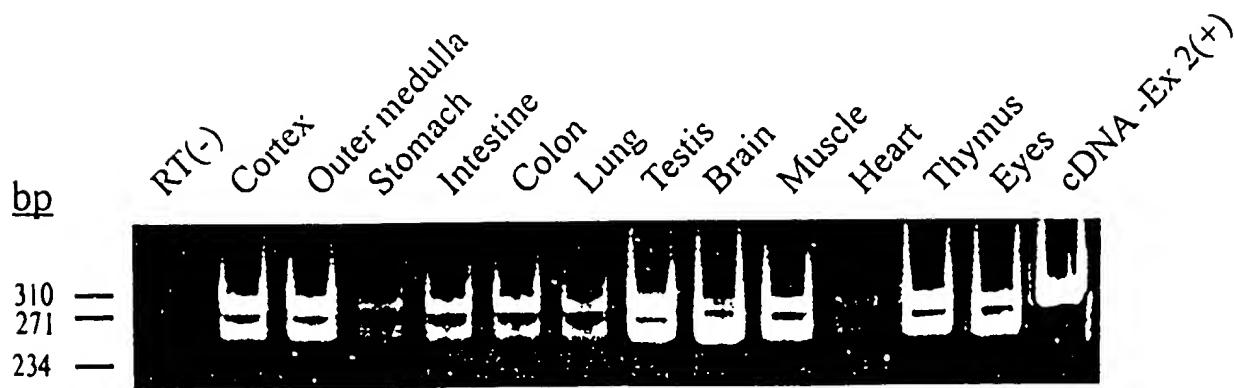


FIG. 27C

COPY

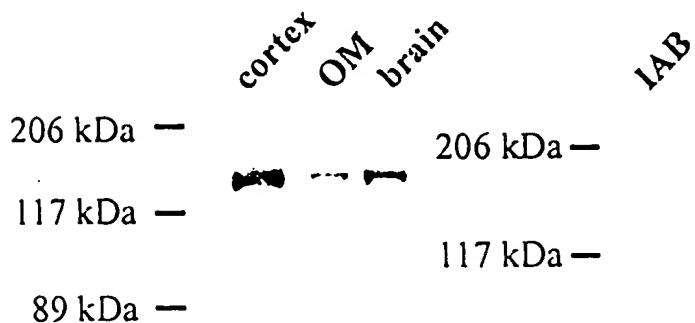


FIG. 27D

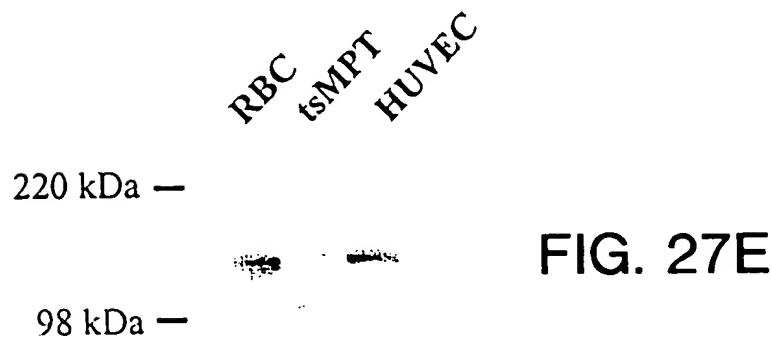


FIG. 27E

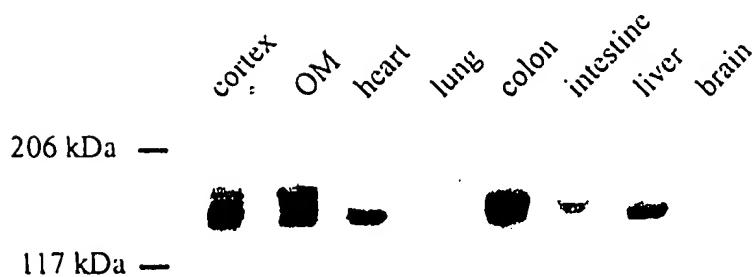


FIG. 27F

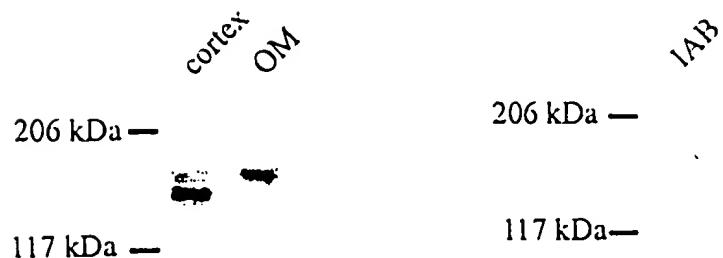


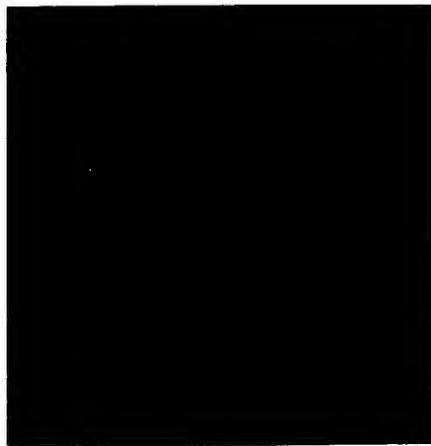
FIG. 27G

FIG. 27H

201060 " 92656860

Title: Purified and Isolated Potassium-Chloride Cotransporter  
Nucleic Acids and Polypeptides and Therapeutic and  
Screening Methods Using Same  
Applicant(s): Mount et al.  
Serial No.: 09/835,976

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FIG. 27J

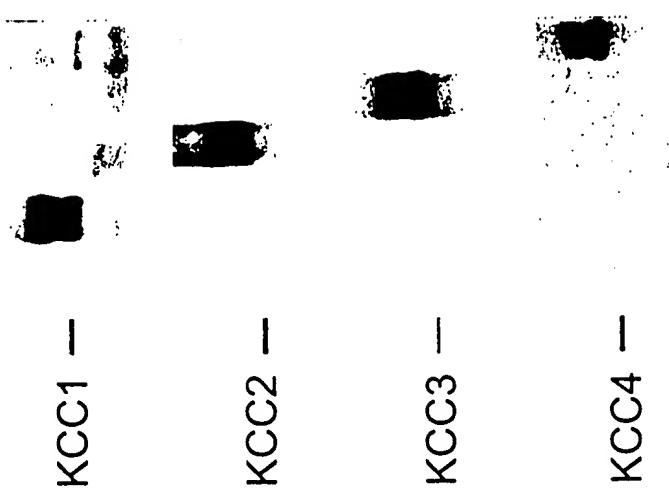


FIG. 27I

COPY

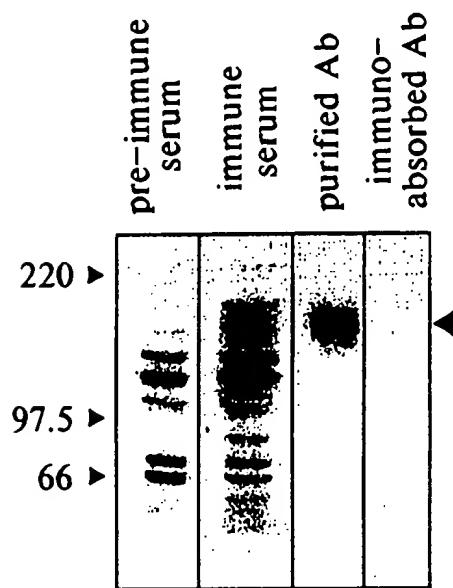


FIG. 28

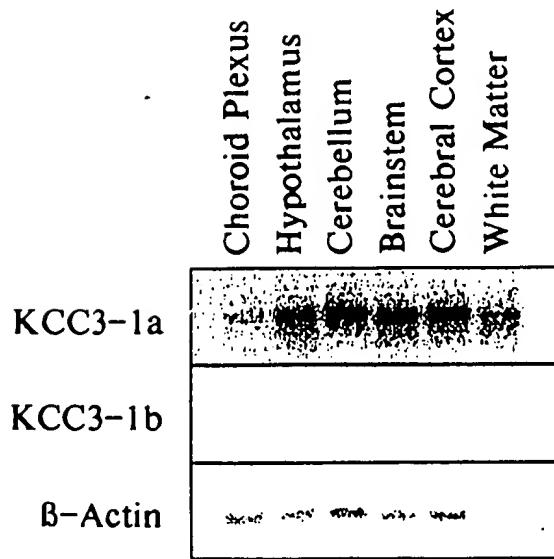


FIG. 29

COPY

FIG. 30A

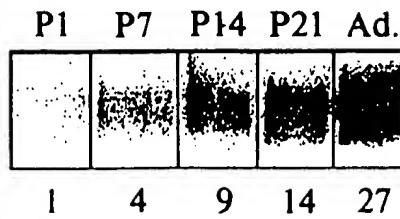
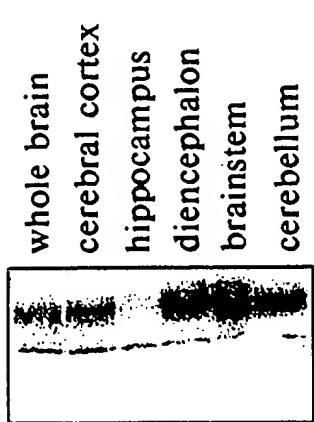


FIG. 30B

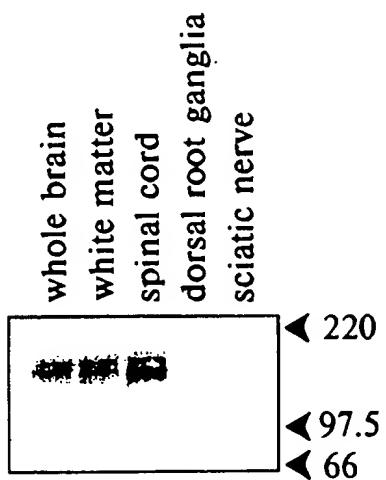


FIG. 30C

COPY

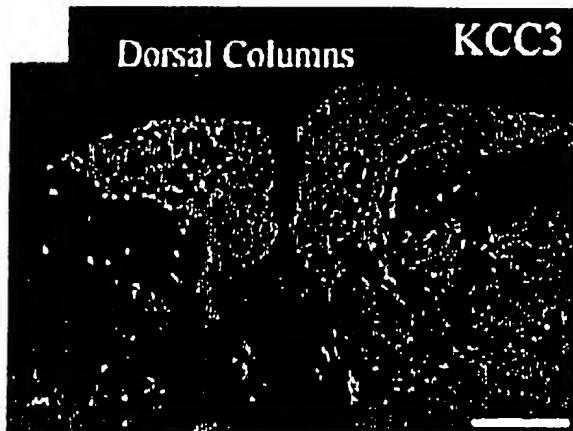


FIG. 31A

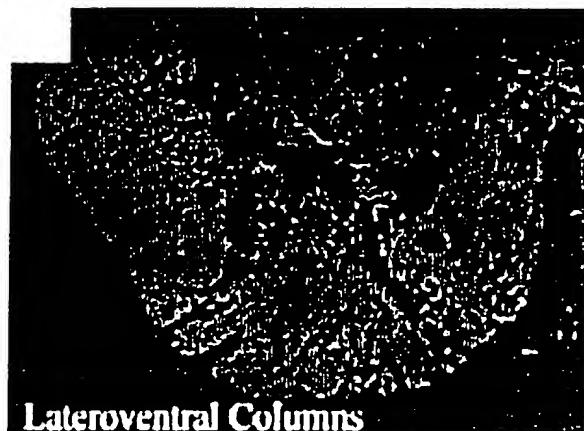


FIG. 31D

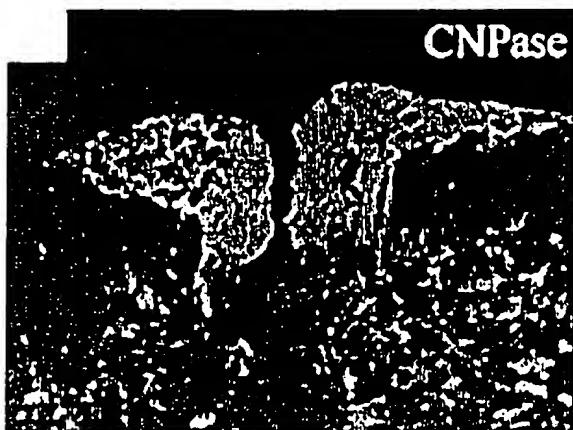


FIG. 31B



FIG. 31E

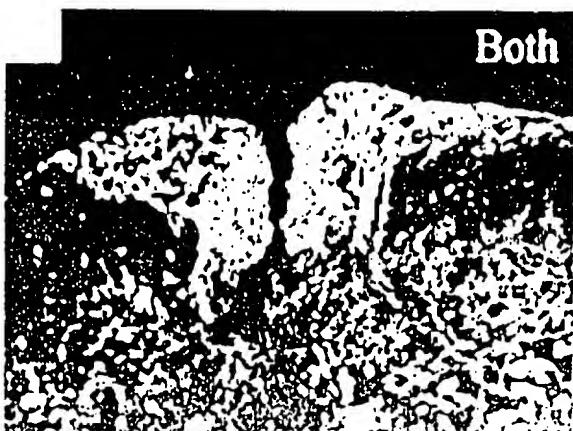


FIG. 31C

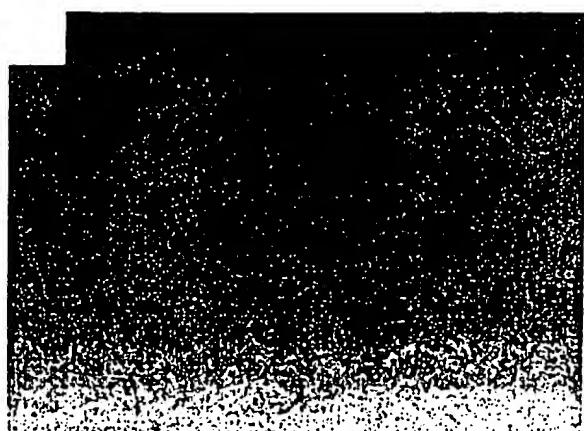


FIG. 31F

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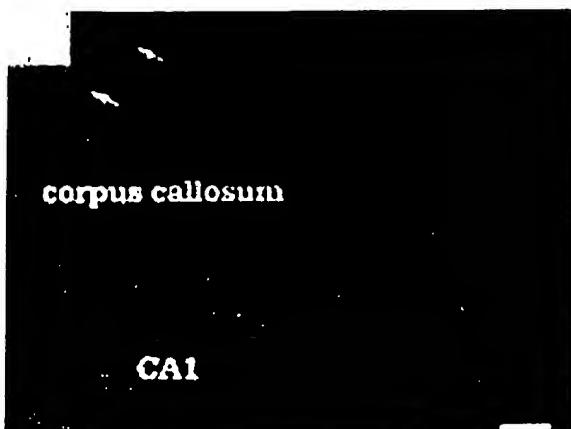


FIG. 32A

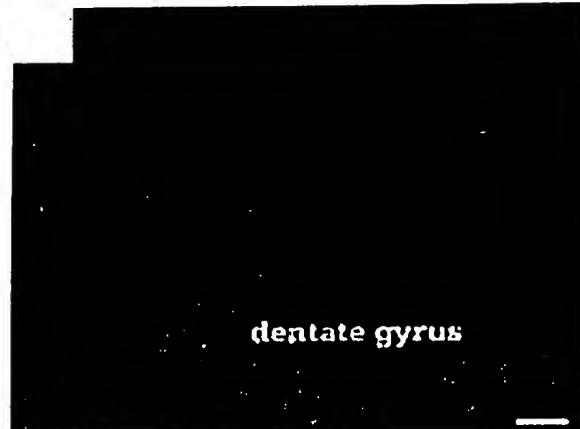


FIG. 32D

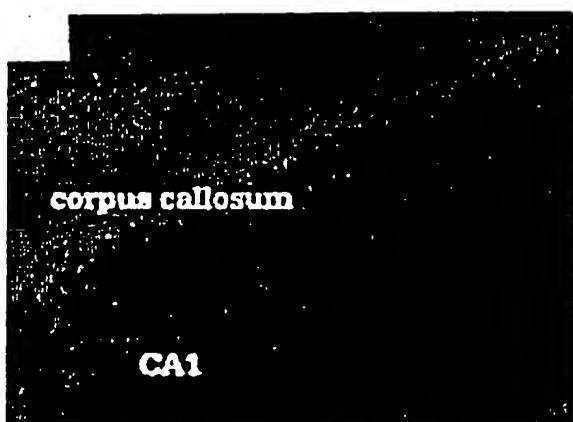


FIG. 32B



FIG. 32E

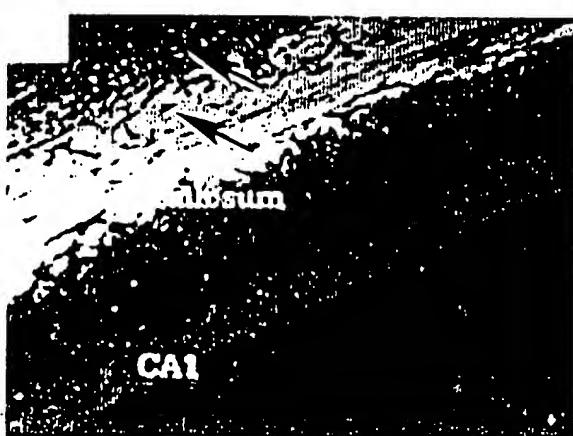


FIG. 32C

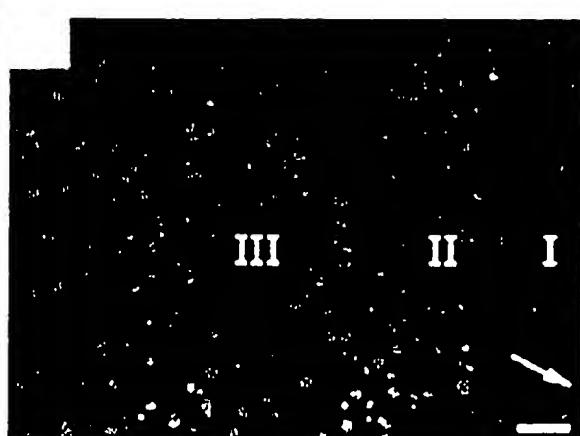


FIG. 32F

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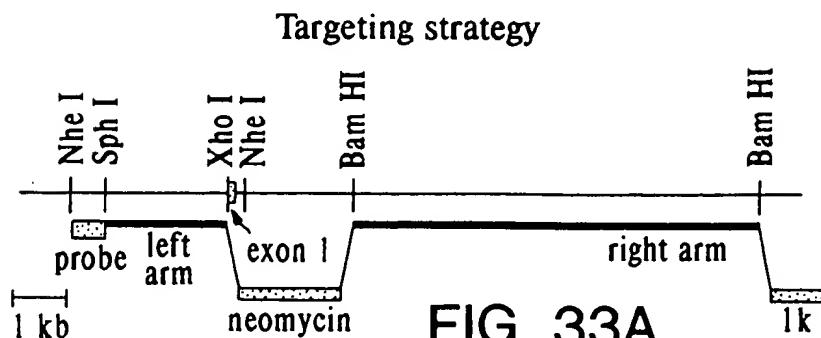


FIG. 33A

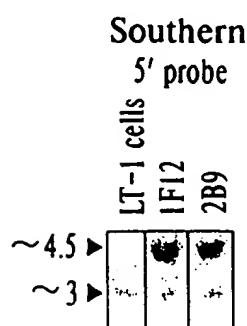


FIG. 33B

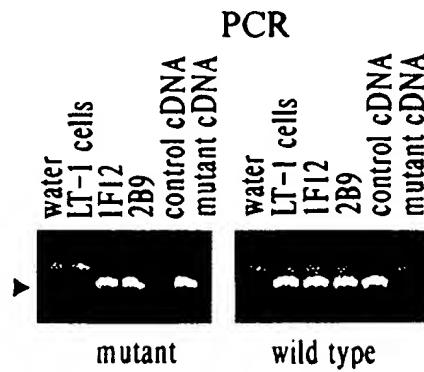


FIG. 33C

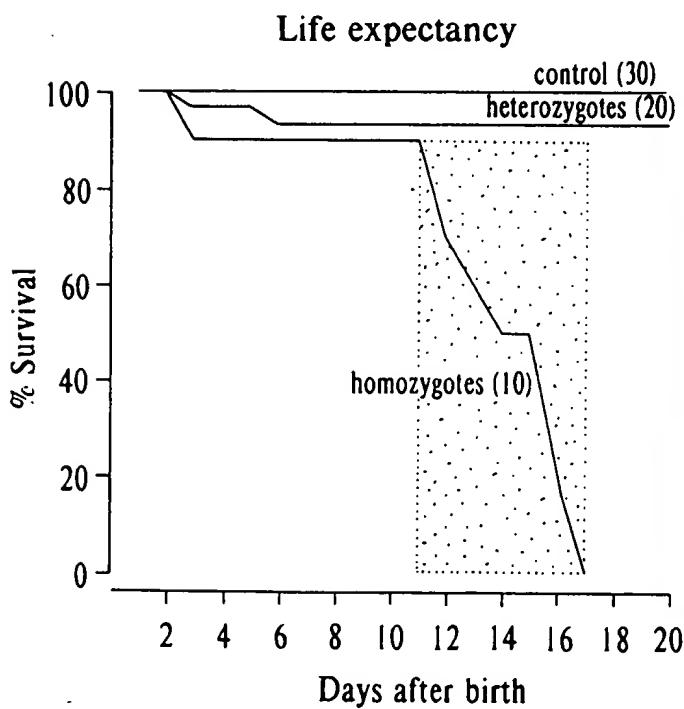


FIG. 33D

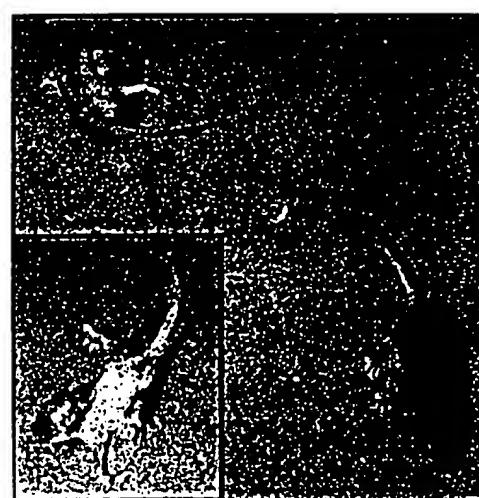


FIG. 33E

**COPY**

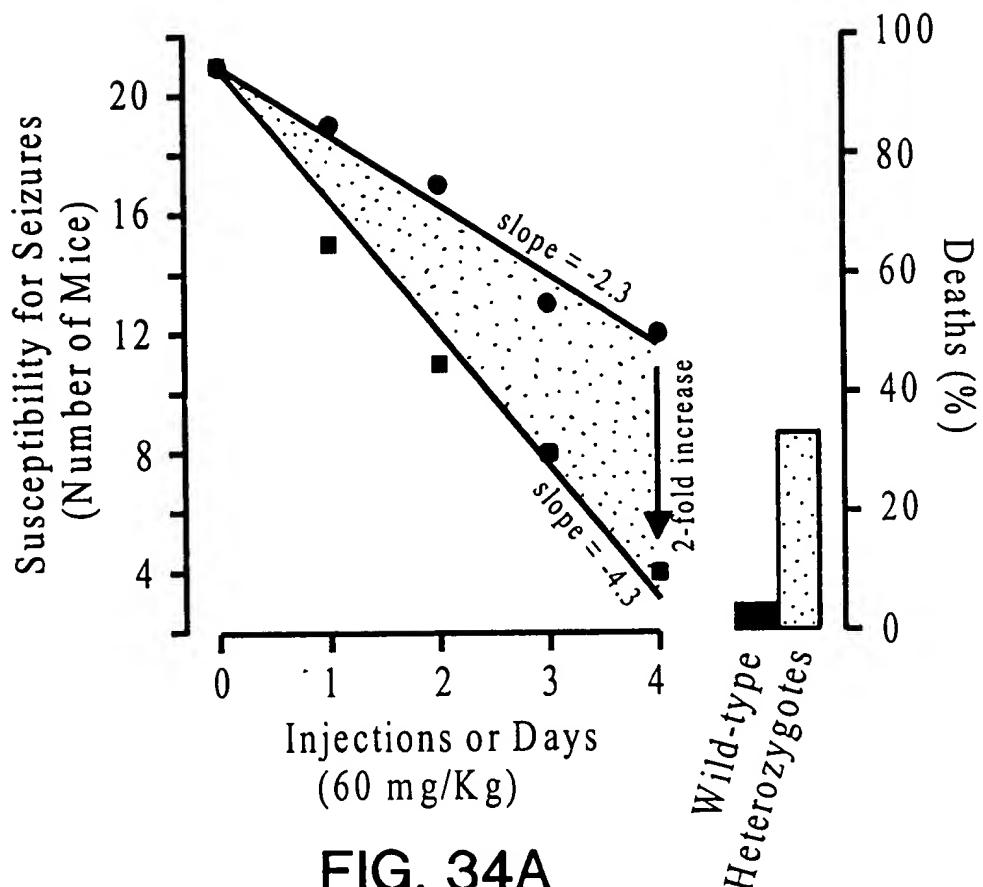
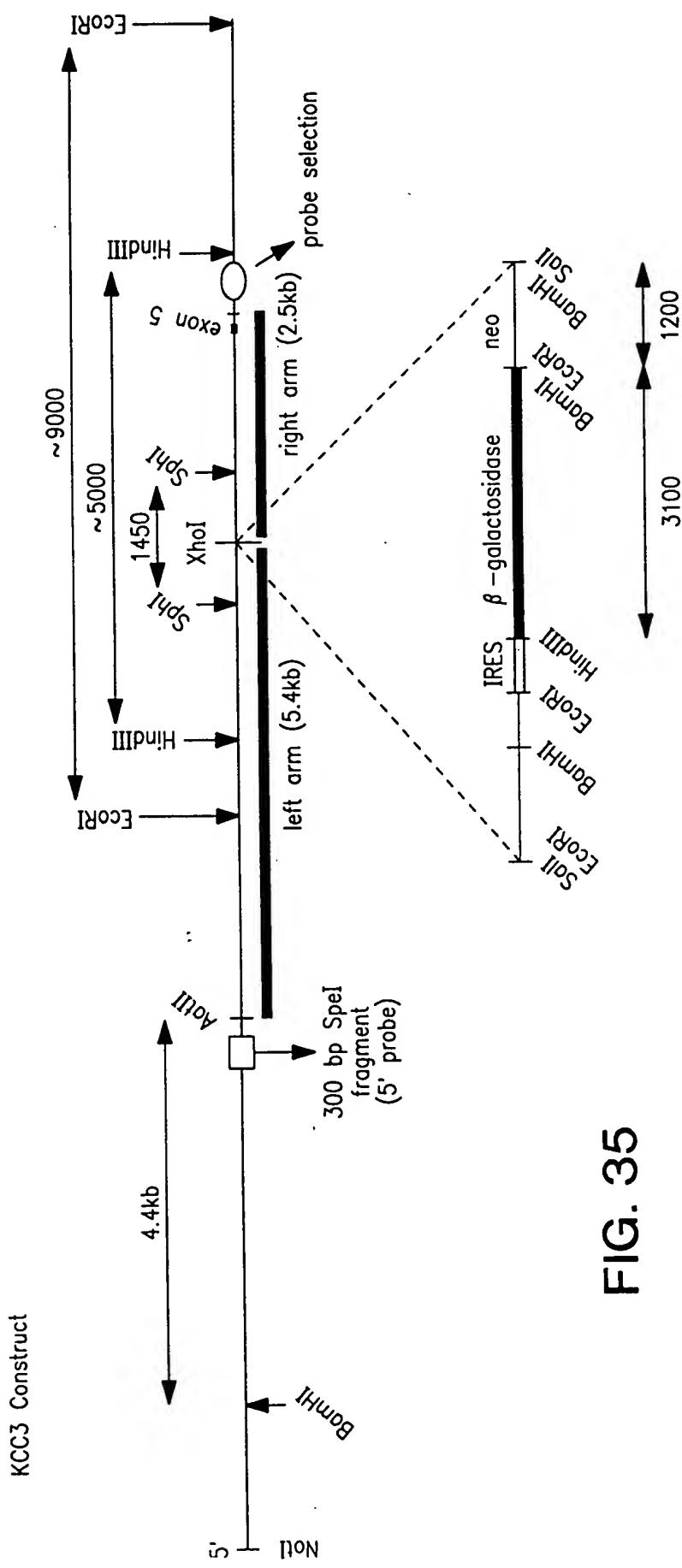


FIG. 34A

# COPY



**FIG. 35**

COPY

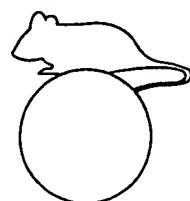
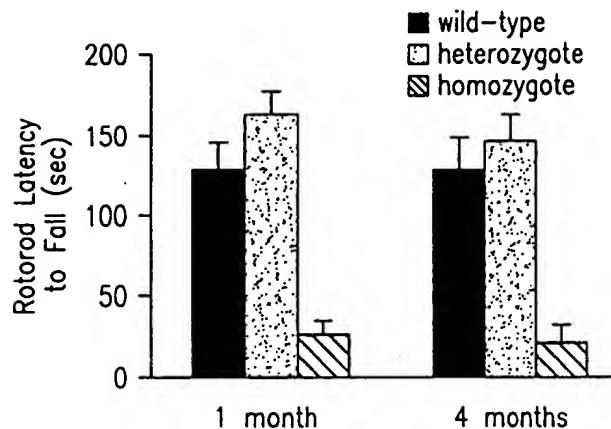


FIG. 36A

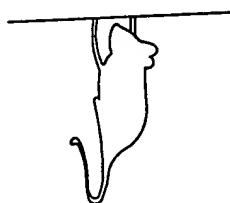
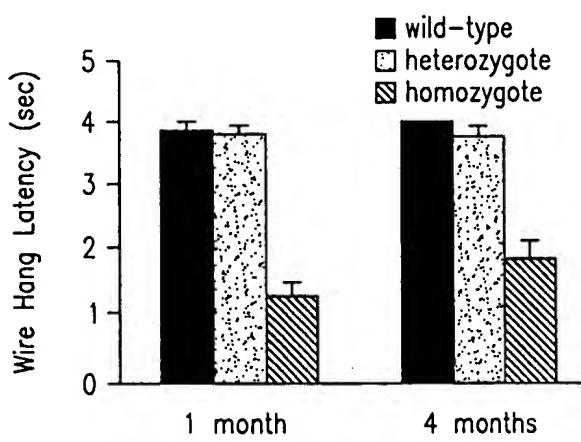


FIG. 36B

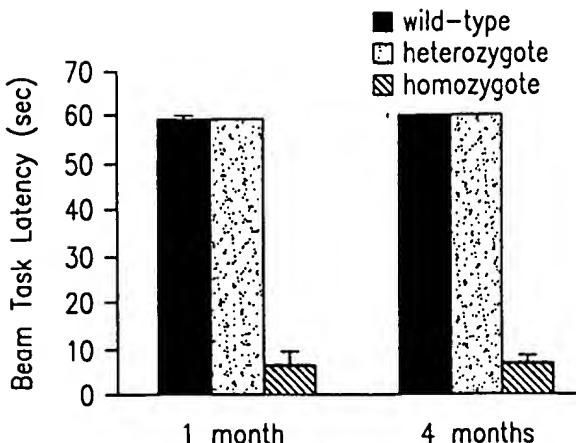


FIG. 36C

COPY

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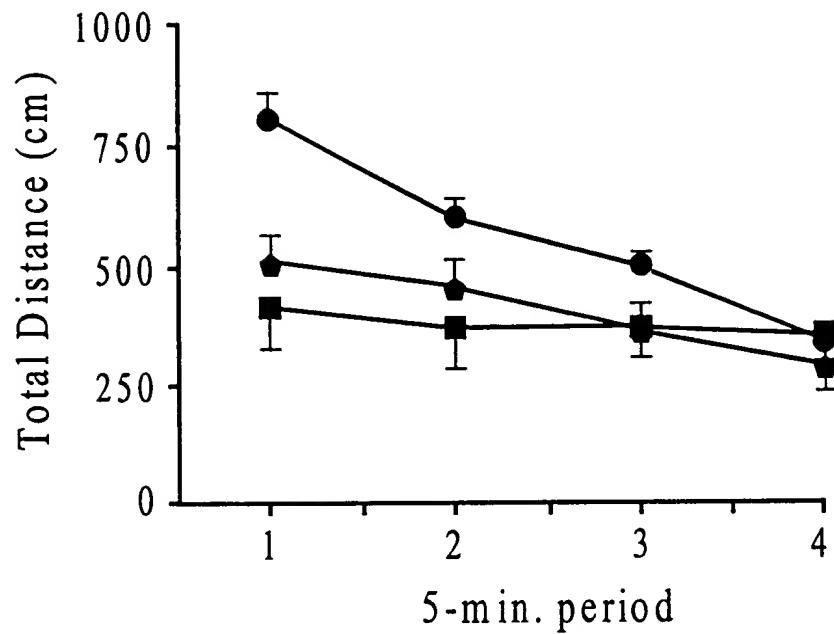


FIG. 37A

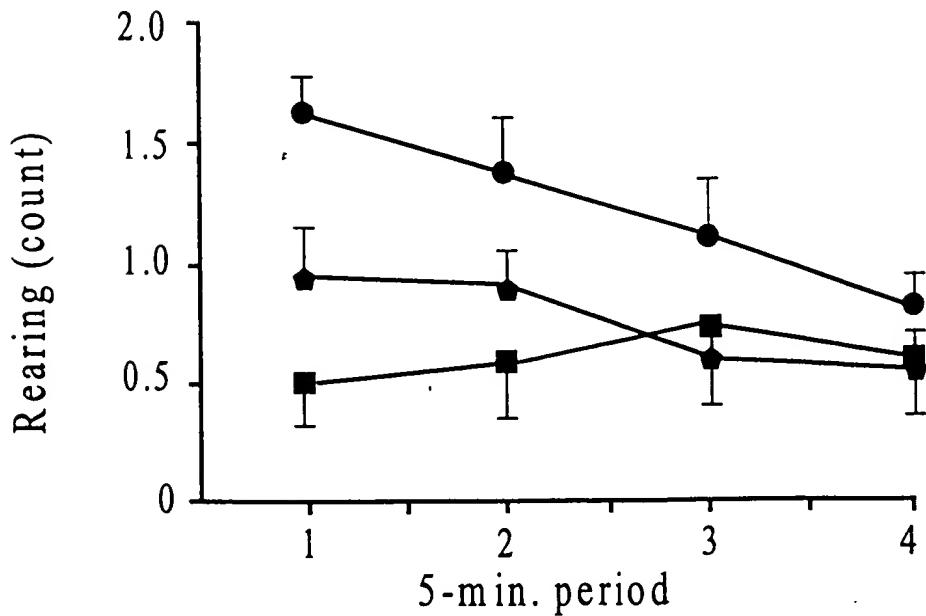


FIG. 37B

COPY

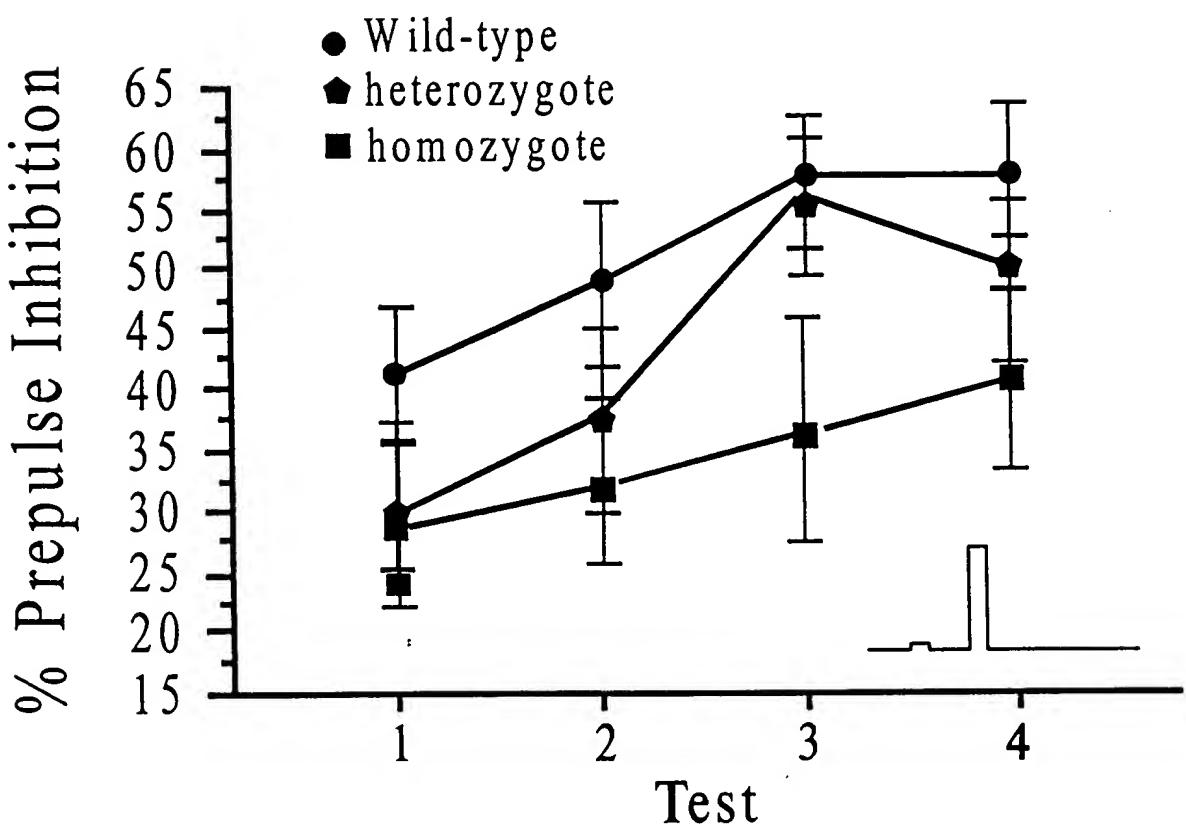


FIG. 38

COPY



FIG. 39A

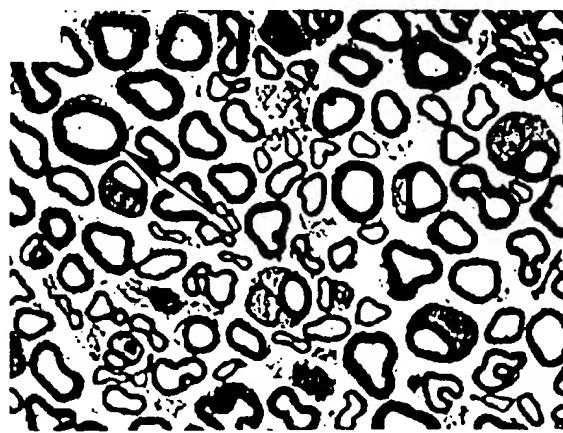


FIG. 39B



FIG. 39C



FIG. 39D

2020 RELEASE UNDER E.O. 14176

Title: Purified and Isolated Potassium-Chloride Cotransporter  
New Acids and Polypeptides and Therapeutic and  
Manufacturing Methods Using Same  
Applicant: Mount et al.  
Serial No.: 09/835,976

COPY

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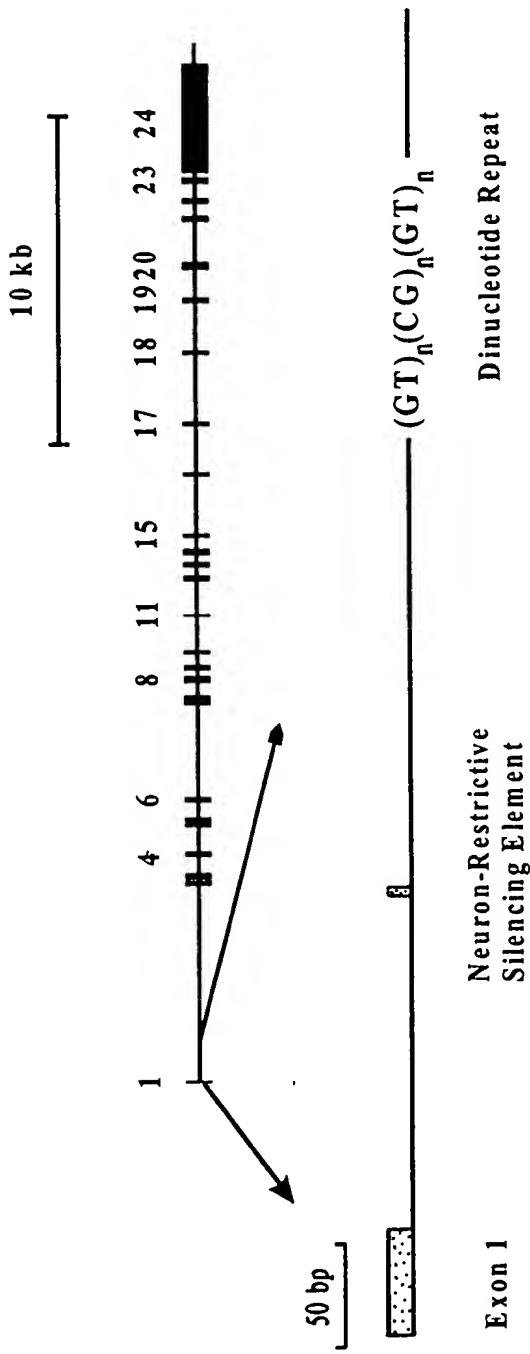


FIG. 40

COPY

**Sequence of the hKCC2 dinucleotide repeat in several individuals:**

**Sample 1:**

Allele A      (GT)<sub>18</sub> (GC)<sub>7</sub> (AT)<sub>1</sub> (GT)<sub>4</sub> (GC)<sub>1</sub> (GT)<sub>11</sub> / Total = 84

Allele B      (GT)<sub>16</sub> (GC)<sub>5</sub> (AT)<sub>1</sub> (GT)<sub>5</sub> (GC)<sub>1</sub> (GT)<sub>9</sub> / Total = 74

**Sample 2:**

Allele A      (GT)<sub>18</sub> (GC)<sub>4</sub> (AT)<sub>2</sub> (GT)<sub>4</sub> (GC)<sub>2</sub> (GT)<sub>11</sub> / Total = 82

**Sample 3:**

Allele A      (GT)<sub>16</sub> (GC)<sub>6</sub> (AT)<sub>1</sub> (GT)<sub>4</sub> (GC)<sub>1</sub> (GT)<sub>11</sub> / Total = 78

Allele B      (GT)<sub>14</sub> (GC)<sub>5</sub> (AT)<sub>1</sub> (GT)<sub>4</sub> (GC)<sub>1</sub> (GT)<sub>11</sub> / Total = 72

**Sample 4:**

Allele A      (GT)<sub>19</sub> (GC)<sub>6</sub> (AT)<sub>2</sub> (GT)<sub>4</sub> (GC)<sub>2</sub> (GT)<sub>10</sub> / Total = 86

Allele B      (GT)<sub>17</sub> (GC)<sub>7</sub> (AT)<sub>2</sub> (GT)<sub>4</sub> (GC)<sub>2</sub> (GT)<sub>10</sub> / Total = 84

**Sample 5:**

Allele A      (GT)<sub>17</sub> (GC)<sub>6</sub> (AT)<sub>2</sub> (GT)<sub>4</sub> (GC)<sub>1</sub> (GT)<sub>10</sub> / Total = 80

Allele B      (GT)<sub>16</sub> (GC)<sub>6</sub> (AT)<sub>2</sub> (GT)<sub>3</sub> (GC)<sub>2</sub> (GT)<sub>10</sub> / Total = 78

**Sample 6:**

Allele A      (GT)<sub>15</sub> (GC)<sub>6</sub> (AT)<sub>1</sub> (GT)<sub>4</sub> (GC)<sub>1</sub> (GT)<sub>11</sub> / Total = 76

Allele B      (GT)<sub>16</sub> (GC)<sub>5</sub> (GT)<sub>1</sub> (AT)<sub>1</sub> (GT)<sub>4</sub> (GC)<sub>1</sub> (GT)<sub>11</sub> / Total = 78

**Sample 7:**

Allele A      (GT)<sub>16</sub> (GC)<sub>4</sub> (GT)<sub>1</sub> (AT)<sub>1</sub> (GT)<sub>5</sub> (GC)<sub>1</sub> (GT)<sub>10</sub> / Total = 76